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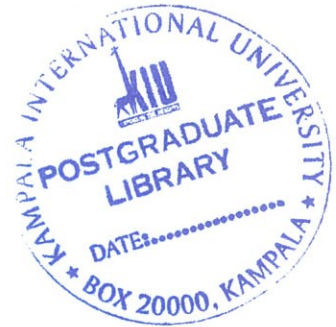
FACULTY OF COMPUTER SCIENCE

A WEB SOLUTION FOR ENTEBBE MUNICIPAL COUNCIL

A PROJECT DISSERTATION SUBMITTED IN PARTIAL FULFILMENT
OF THE REQUIREMENTS FOR THE AWARD OF POST GRADUATE
DIPLOMA IN COMPUTER SCIENCE OF KAMPALA
INTERNATIONAL UNIVERSITY

BY
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APPROVAL

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DECLARATION

This is to declare that all that is contained in this report is my work and has never been presented before for any award in any university.

KAMARA CHRIS

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DEDICATION

This report is dedicated to my affectionate dad, mum, Ruth, Angela, Florence and grand

mother Joy.

ACKNOWLEDGEMENTS

Doing this project was not easy. It was challenging, inspiring and memorable. There was always a source at the time of need. Success is not the absence of problems, but the presence of Gods power; above all I thank the almighty God-my provider, who always makes a way where there seems to be no way. Through the darkest night, his light will shine because God is good and he is so good all the time. Thank you God.

Acknowledgement is extended to my supervisor Professor Vicente Gonzalez for his vehement guidance and constructive advice through out the process of writing this report.

I would like to take the opportunity to thank the course coordinator Mrs. Ouma Maureen for the support, guidelines and expertise she provided.

Lastly my deepest appreciation is expressed to my parents Mr. and Mrs. Kaija for their moral support.

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF ACRONYMS

EIS: Enterprises Information Systems

XML: Extensible Markup Language

CPC: Cost-Per-Click

HTML: Hypertext Markup Language

PHP: Hypertext Preprocessor,

ABSTRACT

The purpose of the project is to provide a web solution for Entebbe Municipal Council. The specific objectives were to gather information required of the new system providing the solution, to analyze the requirements of the new proposed system, to design and test a Website for Entebbe Municipal Council. The tools employed in the methodology of the study were questionnaires, observation, internet and a camera. Content analysis is the method which was used for analyzing the data gathered. Results were presented in the form of tables. It was found that the departments in the municipal council were Finance and Planning Department, Works and Technical Services Section, Physical Planning Department, Education Section, Health and Environment Section, Production Section, Trade Tourism and Industry, Gender and Community Services Section. The municipal council works towards contributing to poverty reduction through the provision of sustainable resources and quality services to the people. The municipal council usually advertises its jobs in the news papers and some times internally. The major requirement of the new system is that it should be able to advertise the company name and services offered. In conclusion the website was designed and it is meant to address the communication problems in the municipal council. The website was tested using internet explorer web browsers. It was recommended that the municipal council should acquire resources to implement the website.

CHAPTER ONE

INTRODUCTION

1.0 Overview

This section presents the background of the study, statement of the problem, purpose, objectives, scope and significance of the study.

1.1 Back ground

A website is a collection of web pages, images, videos or other digital assets that is hosted on one or more web servers, usually accessible via the internet. It is a related collection of World Wide Web (WWW) files that includes a beginning file called a home page. The World Wide Web allows consumers to electronically exchange goods and services with no barriers of time or distance. This project was carried out in Entebbe Municipal Council. Entebbe Municipal Council is thirty seven kilometers south of Kampala, the capital city. It is situated in Wakiso district one of the districts bordering Lake Victoria in the south. The advertising and communication media employed by Entebbe Municipal Council is print media, posters and announcing in public areas. This has not been sufficient enough as posters can only be read by a person physically passing by and thus covers a narrow area of communication. Some people do not buy news papers and others do not attend public gatherings because they are not with in their regions. A web solution will help Entebbe municipal council cover a wider area both locally and internationally.

1.2   Statement of the Problem

In spite of the marketing strategies management at Entebbe Municipal Council has employed, it is still not sufficient enough to ensure nation wide coverage and international exposure. Communication made through the print media, posters and public announcing are only confined to a small group of people. Entebbe municipal council will have an added advantage of being the first municipal council in Uganda to have a website of its own. The researcher there fore developed a website for marketing and creating awareness of services that are carried out at Entebbe municipal council.

1.3   Purpose of the study

The project was aimed at examining and getting a clear understanding of the current communication system at Entebbe Municipal Council and developing a web based solution for the communication system. The project intended to answer the following research questions.

How will I gather information required for the website providing a solution?

How will the gathered information be analyzed?

How is a website designed?

Will the designed website work and offer a solution?

1.4   Objectives of the study

The main objective of the project is to develop a web solution for Entebbe Municipal Council

1.4.1   Specific Objectives

- To gather information required of the new system providing the solution.

- To analyze the requirements of the new proposed system

- To design a new system

- To test the new website solution

1.5   Scope of the Study

The project was carried out from November 2008 to June 2009 in Entebbe Municipal Council. Although Entebbe municipality council offers many services, the study confined mainly on the issues that need to be communicated to the public. These include the services, departments, profile, contact, employment, tenders, news and events. The project was confined to HTML and note pad for design. The study went through the stages of requirements specification, design review, coding, building of the website and lastly testing the website solution.

1.6   Significance of the Study

- The end result of the study is a computerized solution will ease advertisement of jobs and tenders by the municipal council.

- Entebbe municipal council will be exposed to a greater market segment

that is the international market.

- The project will enable the researcher acquire more skills while designing the website.

- The project will act as a reference material to other students who will carry out research in the same area.

1.7   Summary

The advertising and communication media employed by Entebbe Municipal Council is print media, posters and announcing in public areas. Some people do not buy news papers and others do not attend public gatherings because they are not with in their regions. In spite of the marketing strategies management at Entebbe Municipal Council has employed, it is still not sufficient enough to ensure nation wide coverage and international exposure. The purpose of the study was aimed at examining and getting a clear understanding of the current communication system at Entebbe municipal council and developing a web based solution for the communication system. The major of the objective was to design a web solution for Entebbe Municipal Council. The end result of the project that is a computerized solution will ease advertisement of jobs and tenders by the municipal council. The next chapter reviews the related literature to the variables of the study.

CHAPTER TWO

LITERATURE REVIEW

2.0 Overview

This chapter will cover the review of existing literature about website, web page, web server, HTML, E-commerce and E-business, Hypertext processor and municipal councils using web solutions.

2.1 Web Designing

Today, extensible Markup Language (XML) is fast emerging as the dominant standard for storing, describing, representing and interchanging data among various enterprises systems and databases in the context of complex web Enterprises Information Systems (EIS). Conversely, for web EIS (such as e-commerce and portals) to be successful, it is important to apply high level, model driven solutions and meta-data vocabularies to design and implementation techniques that are capable of handling heterogonous schemas and documents. For this, we need a methodology that provides a higher level of abstraction of the domain in question with rigorously defined standards that are to be more widely understood by all stakeholders of the system. (Rajagopalapillai, Gardner, Chang & Dillon, 2005). RobColding (2008) states that with the emergence of Web 2.0 technologies and social networking tools, today's web marketers and designers can apply experience design techniques in the online environment, creating memorable experiences for website visitors and customers. According to Hong, Thong and Tam (2004), Web interface design is of enduring interest to

researchers as online shopping on the Internet continues to grow. Prior research has shown that the design of product listing pages, where information on multiple products are displayed together to allow further exploration of any of them, has a great influence on the traffic and sales volume on a website (Hong, et al. (2004). This means that it is important to list services on line and so it is very good for Entebbe Municipal Council to implement it.

2.2   Web Site

A website is a related collection of World Wide Web (WWW) files that includes a beginning file called a home page. A website is a collection of web pages, images, videos or other digital assets that is hosted on one or more web servers, usually accessible via the internet (Wikipedia, 2008). A company or an individual tells you how to get to their web site by giving you the address of their home page. In other words it is the address such as www. un. org. According to Lemayi (2002), WWW is one of the best parts of the web, and he argues that the reason it became so popular is because of its ability to display both text and graphics in full color and on the same page.

2.3   Web Page

A web page is the representation of a document which resides at a remote site. This is key to understanding what the web itself is and the implications. If a web document resides on the machine you are working from, the document is called an HTML document (Amato, 1997). However, Moor (1998) states that a web page is

a screenful of information. It can be physically many times the length of an A4 sheet of paper, or only a few lines. A web page is the screen which appears on after logging onto an address on the internet.

According to Moor (1998), different lengths of page are used for different purposes and in different circumstances. When we speak of a web page in terms of design, we generally consider it to be on average, one screen wide and, typically, about half a paper A4 page or a bit longer. Pages can have colored backgrounds, or textures, so it is possible to carry themes through a multi-page site by the use of color. Care needs to be taken however, because not all viewers will have the latest high tech equipment capable of seeing more than 216 colors, and in some circumstances, it will be necessary to limit the number of colors to avoid confusion for users. This sort of quality experience and attention to detail is our hallmark (Moor, 1998).

Amato (1997) states that when a web page is visited, the browser is being instructed to go and get a copy of this page from source. The computer then uses the telephone wires to request a copy from the machine at the source. The machine at the source sends back the copy and there it is on your screen. If the page were to be modified this evening and visited tomorrow a new web page would be found. In other words the change on a web page is almost instant and so people are updated at fast rate. The web and specifically, web pages provide a new medium where anyone, anywhere, can publish. The web allows participants

to interact with one another and contribute via e-mail, chat rooms and store fronts. Amato (1997) humbly believes this medium will change social interaction of folks everywhere and I strongly concur with him. I believe a website is necessary for Entebbe Municipal Council.

According to Moor (1998), Pages serve different purposes and indeed they do for example, on a small multi-page website, the first page is likely to be a sort of summary, contents or menu page, from which other pages may be accessed. If it is a huge site, there may be cascading layers of contents pages, or an image map of the site on each of the pages, to make navigation around the site easier. A popular vogue at the moment is a colored panel on the left or top of the screen to locate the sitemap and navigational controls. Some pages will be mostly information, and therefore biased toward text. Others will be a mixture of text and photographs or computer graphics, perhaps even animated, and some pages could be mostly images. Usually, pages would have banner perhaps incorporating the logo of the organization at, or toward, the top of the page, and contact details at the foot (Moor, 1998).

2.4   A Web Server

A web server is a computer that delivers (serves up) Web pages. Every Web server has an IP address and possibly a domain name. For example, if you enter the URL http://www.pcwebopedia.com/index.html in your browser, this sends a request to the server whose domain name is pcwebopedia.com. The server then

fetches the page named index.html and sends it to your browser (Webopedia, 2008). Any computer can be turned into a Web server by installing server software and connecting the machine to the Internet. There are many Web server software applications, including public domain software from NCSA and Apache, and commercial packages from Microsoft, Netscape and others (Webopedia, 2008).

2.5   E-commerce

According to The Minority Business Development Agency (2006), E-Commerce is any activity that utilizes some form of electronic communication in the inventory, exchange, advertisement, distribution, and/or payment for goods and services. Electronic commerce or e-commerce is a term for any type of business, or commercial transaction that involves the transfer of information across the Internet (Network Solutions, 2007). E- Commerce is carrying out transactions electronically.

According to Network solutions (2007), E-commerce allows consumers to electronically exchange goods and services with no barriers of time or distance. Electronic commerce has expanded rapidly over the past five years and is predicted to continue at this rate, or even accelerate. In the near future the boundaries between "conventional" and "electronic" commerce will become increasingly blurred as more and more businesses move sections of their operations onto the Internet. At this rate that is why it is necessary for Entebbe

municipal council to get a web site so that it is up to date with the current technology.

Carrying out transactions electronically provides vast competitive advantages over traditional methods. When implemented properly, ecommerce is often faster, cheaper and more convenient than the traditional methods of bartering goods and services. The road to creating a successful online store can be difficult if unaware of e-commerce principles and what e-commerce is supposed to do for the online business. Researching and understanding the guidelines required to properly implement an e-business plan is a crucial part to becoming successful with online store building (Network Solutions, 2007).

From predictions by The Minority Business Development Agency (2006), depending on the sources, there either are or soon will be over one hundred million people with accounts on the World Wide Web. This is true because we are in the computer era and so it is important for Entebbe Municipal Council to get a web site. Network solutions (2007), states that while the overall economy has been growing by single-digit rates in the longest economic expansion in history, electronic commerce has been growing orders of magnitude faster than the economy as a whole. A Washington Post report in January of 1999 reported that holiday shopping online had tripled. Projections for internet commerce in the first few years of the 21st century range between hundreds of billions and trillions of dollars, depending on who is doing the projection (Network Solutions, 2007). All

10

the above agree that Internet commerce will be a major part of the 21st century world economy and I strongly concur with them.

According to Network solutions (2007), there is need of a marketing strategy for driving targeted traffic to your site. This is a challenge for Entebbe Municipal Council but it can be done through the traditional methods they have been using for communication. E-commerce can be a very rewarding venture. It is important to do a lot of research, ask questions, work hard and make business decisions on facts learned from researching e-commerce (Network Solutions, 2007).

2.6   E-Business

E-business (electronic business) means using the Internet or related technologies for normal business operations. It can be used for buying, selling, advertising, managing e.t.c. The Internet can be used to reduce costs, improve productivity, or increase revenue (SME Direct, 2008). Nelson (2001) defines e- business as the conduct of business on the Internet, not only buying and selling but also servicing customers and collaborating with business partners. Today, major corporations are rethinking their businesses in terms of the internet and its new culture and capabilities. Nelson (2001) states that companies are using the Web to buy parts and supplies from other companies, to collaborate on sales promotions, and to do joint research. All of the 1001 things an owner or manager does every day offer possibilities for internet-based, e-business solutions. E-business can include any and all business functions: sales, marketing, customer relations, industry and

competitive intelligence, procurement, general management, or human resources (SME Direct, 2008).

2.7 Web Based Advertising

One of the most popular methods of online advertising is CPC (cost-per-click, advertising). As Web users become more and more jaded to banner and button advertisements, and click-through rates for these types of advertisements, CPC advertising has taken hold. Advertisements are displayed in the same way as in CPM (cost per 1,000 impressions, or instances of an advert appearing on a Web site). The difference is in how the customer pays for the advertising (Kaplan, 2008).

For example, if you decide to advertise with a CPC-based search engine or a featured listing with a search engine, your advertisement will display each time a user enters in a keyword that matches your predetermined keyword list. You don't pay each time the advertisement displays but rather only when it is actually clicked.

2.8 Hypertext Markup Language (HTML)

According to Shannon (2008) HTML is Hypertext Markup Language.

- Hypertext is the method used for moving around the web that is to say by clicking on special text called hyperlinks which bring you to the next

page. The fact that it is hyper just means it is not linear that is to say it is

possible to go to any place on the Internet whenever need arises by

clicking on links and there is no set order to do things in.

- Markup is what HTML tags do to the text inside them. They mark it as a

   certain type of text (italicized text, for example).

- HTML is a Language, as it has code-words and syntax like any other

   language.

According to Kenessaw State University (2002) HTML (Hypertext Markup Language) is the programming language used to write web documents. Shannon (2008) defines HTML as a computer language devised to allow website creation. These websites can then be viewed by anyone else connected to the Internet. It is relatively easy to learn, with the basics being accessible to most people in one sitting, and quite powerful in what it allows to create. It is constantly undergoing revision and evolution to meet the demands and requirements of the growing internet audience under the direction of the organization charged with designing and maintaining the language (Shannon, 2008).

2.8.1 How HTML Works

HTML consists of a series of short codes typed into a text-file by the site author (these are the tags). The text is then saved as a HTML file, and viewed through a

13

browser. like Internet Explorer or Netscape Navigator. This browser reads the file and translates the text into a visible form, hopefully rendering the page as the author had intended. Writing HTML entails using tags correctly to create the intended vision. Any thing can be used from a rudimentary text-editor to a powerful graphical editor to create HTML pages (Shannon, 2008).

2.8.2 Tags

The tags are what separate normal text from HTML code. They are the words between the triangle-brackets. They allow all the cool stuff like images and tables and stuff, just by telling the browser what to render on the page. Different tags will perform different functions. The tags themselves don't appear when the page is viewed through a browser, but their effects do. The simplest tags do nothing more than apply formatting to some text (Shannon, 2008).

2.9 Hypertext Preprocessor

PHP stands for Hypertext Preprocessor, with that PHP standing for Personal Home Page [Tools]. PHP is an open-source language, used primarily for dynamic web content and server-side applications. Development continues apace, however, and with each successive build, PHP appears to address more and more of the concerns raised by its open-source community (Geek, 2008).

PHP has many open-source libraries included with the core build, and many more are readily available. Extensions exist to help PHP interface with a number of systems, including IRC, a number of compression formats, and Windows API.

Other extensions exist to let PHP generate file formats on-the-fly, such as a popular extension which allows PHP to create Macromedia Flash movies community (Geek, 2008).

2.10   Municipal Councils which use web solutions

Very many municipalities and local governments have opted for the web as a solution for their communication problems. A few examples are cited below.

Mbale municipal council has taken the web as a solution to its communication problems. The page includes all the activities in the municipality. These include projects, sports, special events, tour around Mbale, jobs, projects and events calendar (Project arts 2008). It is well marketed to the outside world. Home page is below.
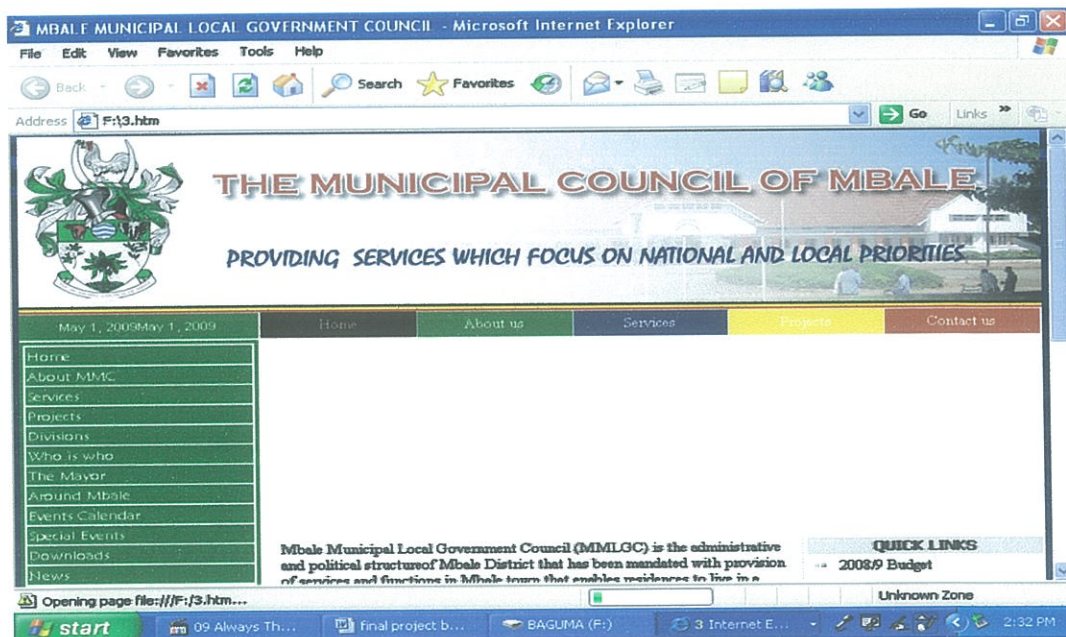
Figure 2.1 Mbale Municipal council web page

Bishnupur in South Africa has also taken the web as a solution to their communication problems. The page talks about the municipality, the completed activities, the number of deaths and births. (Bishnupur, 2000)
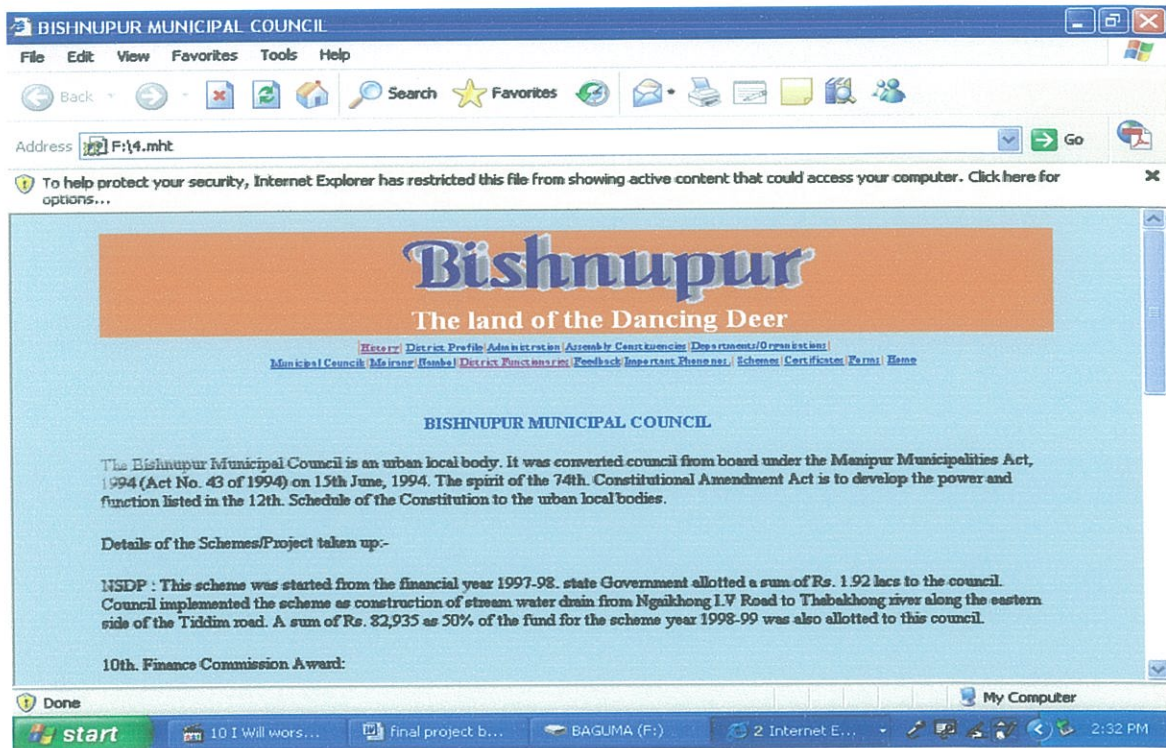
Figure 2.2 Bishnupur municipal council webpage

Colombo in Srilanka has also taken the web as a solution to their communication problems. Their page talks about their council, maps and contacts. It also has a public board to update readers on the news and events in the council (Meqadyiam (2000)
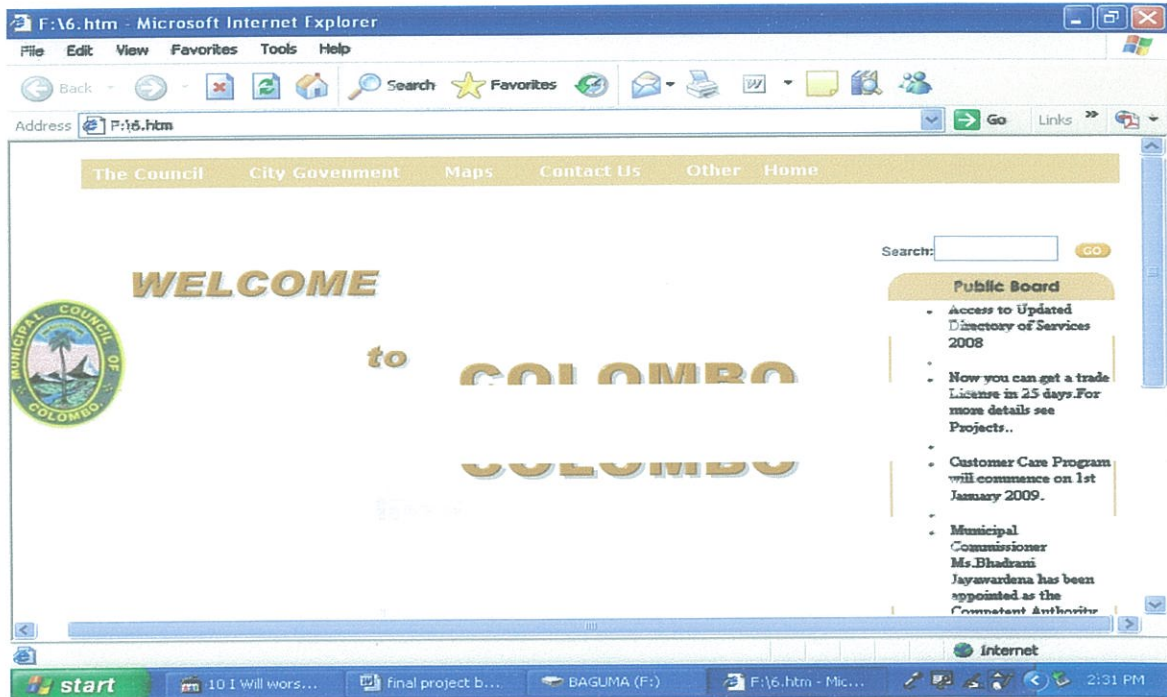
Figure 2.3 Colombo municipal council webpage

Constitution of the Republic of South Africa fifteenth amendment bill, the

Private Member's Bill is posted on the internet for the private institutions (such as

their municipal councils) to read. In other words they have taken a web solution to

communicate with their municipal councils and so it would be good if the

municipal councils did the same. This Bill seeks to amend the Constitution so as

to disallow a Member of the National Assembly or a provincial legislature or a

municipal council from becoming a member of another party whilst retaining

membership of the National Assembly or of that provincial legislature or that

municipal council.

The Bill also seeks to disallow a party represented in the National Assembly

or a provincial legislature or a municipal council from subdividing into more than one party or from subdividing and any one of the subdivisions from merging with another party with a member affected by such subdivision or subdivision and merger retaining membership of the National Assembly or of that provincial legislature or that municipal council (Tertius, 2006).

In Ontario there is a website called yourlocalgovernment.com. It has the municipal act and responsibilities of the Municipal Council. It guides Municipal Councils on how to go about there day today activities. There is need for the municipal councils to start their own web solutions for easy communication (Encyclopedia, 1999).
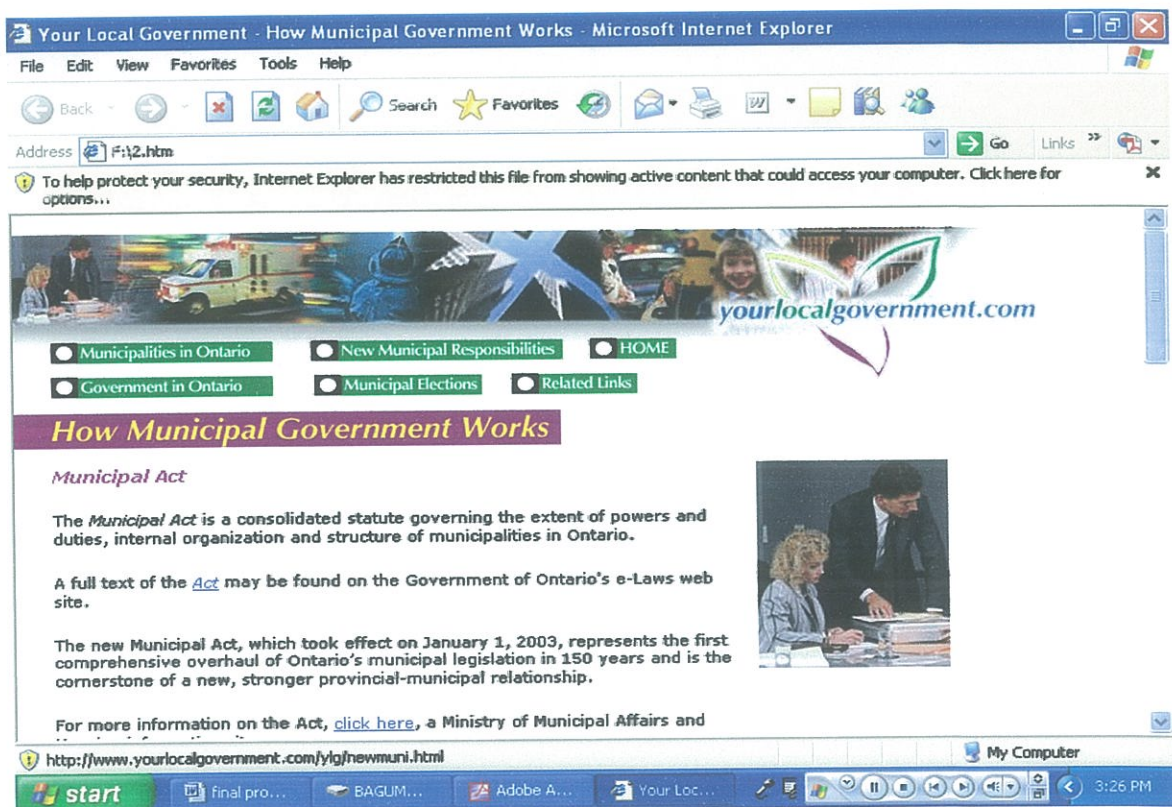
Figure 2.4 Local government webpage

Because of the above mentioned web pages and many others, there is need for the home of the state house to have a web site of its own.

2.11 Summary

A website is a related collection of World Wide Web (WWW) files that includes a beginning file called a home page. A web page is the representation of a document which resides at a remote site. A web server is a computer that delivers (serves up) Web pages. According to The Minority Business Development Agency (2006), E-Commerce is any activity that utilizes some form of electronic communication in the inventory, exchange, advertisement, distribution, and/or payment for goods and services. E-business (electronic business) means using the Internet or related technologies for normal business operations. According to Shannon (2008) HTML is Hypertext Markup Language. Hypertext is the method used for moving around the web that is to say by clicking on special text called hyperlinks which bring you to the next page. PHP stands for Hypertext Preprocessor, with that PHP standing for Personal Home Page [Tools]. PHP is an open-source language, used primarily for dynamic web content and server-side applications. Very many municipalities and local governments have opted for the web as a solution for their communication problems. An example is Mbale Municipal Council which has taken the web as a solution to its communication problems. The next chapter discusses the methodology that was employed in the study.

CHAPTER THREE

METHODOLOGY

3.0 Overview

This section gives a description of the research design, sampling procedure, sample, instruments, procedure and data analysis.

3.1 Research Design

The study followed a qualitative research design where the heads of departments and a few employees were interviewed.

3.2 Sampling Procedure

In this research, stratified sampling was used. The different population stratums were eight departments. Simple random sampling was then used to choose the respondents from the different stratifications.

3.3 Sample

The research focused on the department representatives. These employees were gender balanced. These respondents were chosen to reduce the risk that could occur as a result of choosing very many employees of one department who may have no knowledge of what actually happens in another department hence end up being unrepresentative. Each department was made up of four employees.

20

Table 3.1 sample

Type of Respondent	No of Respondents
Head of Department Finance and Planning	1
Head of Department Works and Technical Services Section	1
Head of Department Physical Planning	1
Head of Department Education Section	1
Head of Department Health and Environment Section	1
Head of Department Production section	1
Head of Department Tourism, Trade and Industry	1
Head of Department Gender and Community services section	1

3.4   Instruments

The instruments which were used are be semi structured questionnaires, observation and photography.

3.4.1   Questionnaires

Semi structured questionnaires were administered through face to face interviews. Some of the questions had the yes/ no response format while others were open ended questions. The questionnaires were made up of two sections; the respondent's bio data and the information section. The respondent's bio data

21

section included the name. occupation, age, profession, department and sex. The information section included services of the various departments and the municipal council. This method was chosen because of its advantages of low cost in operation and time saving.

3.4.2 Observation

Observation was used as an effective and cheaper way of data collection. Occasional visits to the Municipal Council were made. And the main sections to observe were views for the website background. Many views were photographed to choose the best for the website images.

3.5 Procedure

This study started with the preparation of the proposal. The next step was handing in the proposal to the supervisor for approval. On approval, permission was sought from the school of post graduate studies to carry out the research. Permission was then sought from Entebbe Municipal Council to carry out the research. On acquiring permission, information was collected using questionnaires, observation and photography. Information gathered was then sorted, organized and analyzed.

The new website was then designed starting with installing the design software, creating a new site, creating an HTML document, designing the page lay out, inserting and formatting text in the HTML document, creating links and

Navigation bars, inserting images into the page and adding media objects, identifying different behavior reactions and finally testing the new web site. A report was then written and submitted to the supervisor.

3.6 Data Analysis

The data was edited as soon as it was got to ensure accuracy and consistency of the information given by the respondents. Content analysis is the method which was used for analyzing the data gathered. Content analysis is the simplest and most popular qualitative method. It is the preferred technique for analyzing semi-structured interviews and cognitive testing interviews. Content analysis is comfortably self-taught and analyses progress quickly.

3.7 Summary

The study followed a qualitative research design where the heads of departments and a few employees were interviewed. In this research, stratified sampling was used. The research focused on the department representatives. The instruments used were questionnaires and observation. Information was collected using questionnaires, observation and photography. Information gathered was then sorted, organized and analyzed. The new website was then designed starting with installing the design software, creating a new site, creating an HTML document, designing the page layout, inserting and formatting text in the HTML document and creating links. Content analysis is the method which was used for analyzing the data gathered. The next chapter presents the findings of the study.

CHAPTER FOUR

RESULTS AND FINDINGS

4.0   Overview

The section talks about the respondents' basic biodata such as gender, occupation and age. It also talks about information such as internet in the offices, the various departments, about Entebbe Municipal council and the services offered and the information usually advertised.

4.1   Respondents Basic Bio data

The questionnaire used included questions to solicit respondents' basic biodata. The information collected was on occupation, gender, age and department.

4.1.1   Gender of the Respondents

A total of 8 respondents were covered by the questionnaire of which 4 were females and 4 were males. This information is shown in table 4.1. This shows that the study was gender sensitive.

4.1.2   Occupation of the Respondents

The respondents interviewed were heads of departments. These included an accountant, a social worker, and engineer, an environmentalist and a development worker. Knowing the respondents occupations helps in knowing the type of people employed at the municipal council and concluding if they can efficiently use the web solution.

4.1.3 Age of Respondents

Respondents were asked for their age and these are shown in the table below.

Table 4.1 Ages of the respondents

Respondents	Age (years)			
	Below 18	18-30	31-45	Above 45
Male	0	0	1	3
Female	0	0	4	0
Total	0	0	5	3
Percentage %	0	0	62.5	37.5

Over all the respondents, 62.5% of them were between 31-45 years of age, 37.5% between above 45 years of age. This helps in finding out if it is worth training the employees in case they are not computer literate.

4.2 Information

The responses and results in relation to information about Entebbe Municipal Council are in this section.

4.2.1 Internet in the Offices

Of the respondents interviewed approximately 67.3% of the respondents do not have internet in their offices. The 33.3% who have internet in their offices have it there on self initiative.

Table 4.2 Response on whether there is internet in the offices.

Response	Total	Percentage
Yes	2	33.3%
No	6	67.3%

4.2.2 The Departments

The researcher found eight departments in the Municipal council. These are

- Finance and Planning Department

- Works and technical services section

- Physical planning department

- Education section

- Health and environment section

- Production section

- Trade tourism and industry

- Gender and community services section

4.2.2.1 Finance and Planning Department

The finance sector is responsible for identifying sources and collecting sufficient revenue from the urban population and harnessing additional sources of revenue

to supplement local resources. The council finances its programs from a number of Revenue sources both internal and external. Internal sources include taxes, licenses, fees, rates and rent. External sources include grants and donations. The finance department is charged with administering all revenues legally accruing to the council and ensuring enhanced accountability through better planning, budgeting, disbursement and monitoring. The council has the following key sources of local revenue. Graduated tax, rates and rent, administration fees and licenses, debtors and other miscellaneous revenue.

In the planning section the overall goal is to provide integrated planning for services covering sectoral plans, policies and to monitor and evaluate the implemented activities yet providing timely information on planned activities carried out by all sectors.

4.2.2.2   Works and technical services section

This sector is responsible for ensuring availability of infrastructure facilities for example feeder roads, walkways, water, public buildings etc to all parts of the municipality. The department has executed various routine and project works including road maintenance of tarmac and gravel roads, electrical, old and new streetlights and vehicle and plant management. It also carries out supervision of building projects for council and private developers and ensures compliance to detailed town plans during development.

4.2.2.3 Physical planning department

The department is evolving into an independent sector and is responsible for developing the outline scheme which has had many good qualities and has attributed to a number of achievements in the municipality. The outline scheme has been able to give some guidelines to development and has acted as a base map, which has enabled other maps for Entebbe to be prepared.

However today the practice has been flouted and reversed. What is on the ground is that land is first occupied, then it's developed and services are installed after which planning follows. Physical planning in Entebbe seeks to redress the imbalance and secure future settlement on a planned basis.

4.2.2.4 Education section

The council has been able to implement its plans through the education department, which focuses on primary, pre-primary and sports in order to achieve the expected impact within the schools of this municipality.

This sector receives a number of grants from the central Government, which include school facilities Grant, Universal Primary Education Grant and Secondary Capitation Grant. These grants have greatly contributed to the achievements of the sector.

The municipality has 20,643 learners all together in Nursery, primary and Secondary Institutions with a total of 792 teachers. There are 48 Nursery schools with 1029 children and 70 teachers. There are 16 Government Aided primary schools with 11, 063 children and 269 teachers and 21 private primary schools

2362 children and 163 teachers. The total enrolment in primary schools is 13,425 children and 332 teachers. There are 3 government secondary schools with 1747 students and 103 teachers, 7 private schools with 4262 students and 167 teachers. The total enrolment in secondary schools is 6009 students with 270 teachers.

4.2.2.5 *Health and Environment Section*

The department is charged with the responsibility of supporting health promoting and disease preventing interventions of primary Health care as well as the related environment protection interventions.

In order to strengthen management of health services and to improve on equity of access to essential health services the municipality has a government hospital and about 25 private clinics.

4.2.2.6 *Production Section*

The production department was formed in Entebbe Municipal Council in 1999 in line with the Government efforts to alleviate poverty. Urban and peri urban agriculture are increasingly effective strategies in the reduction of urban poverty and enhancement of food security, health and nutrition in the community.

4.2.2.7 Gender and Community Services Section

This sector is charged with ensuring that the gender gap existing is addressed and it also avails all urban residents with community-based services that are commensurate with accepted standards.

4.2.2.8 Trade Tourism and Industry

Tourism trade and transportation are the heart of the livelihood in Entebbe municipality. However it is desirable for the council to come up with deliberately targeted promotion activities such as garbage collection and street lighting. The private sector is the significant actor in tourism, trade, industry and transportation.

Tourism covers a number of facilities namely; hotels and Inns, botanical gardens, beaches, animal sanctuaries, historical sites and leisure parks. The municipality council has committed itself to transforming Entebbe into a tourist town, and to this end spearheaded the formation of the Entebbe Tourism Development association, a partnership, between tourism and hospitality operators and the council. The association has been in operation for the last four years, with mixed success.

4.2.3 About Entebbe Municipal council

This part has all the information that was gathered about Entebbe Municipal council

4.2.3.1 *Vision*

"A prosperous and development oriented population assessing quality services and managing natural resources sustain ably"

4.2.3.2 *Mission Statement*

"To serve the people of Entebbe Municipality through coordinated Delivery of services articulating both National and local priorities and committed to the improvement in the overall quality of life in the Municipality "

4.2.3.3 *Overall Goal*

To contribute to poverty reduction through the provision of sustainable resources and quality services to the people.

4.2.3.4 *Location*

The municipality lies at 00.4N, 320.28E, and is 37 kilometers south of Kampala, the Capital City. It is situated in Wakiso district one of the districts bordering lake Victoria in the south.

4.2.3.5 *Administrative Units*

The Municipality has a number of administrative units. There are 2 Divisions A & B and each Division has 2 wards. The Municipality has 24 sunwards.

4.2.3.6 Natural Resources

Entebbe municipality is endowed with several natural resources and unique man-made features (a 70 acre botanical gardens, zoo-Uganda Wildlife Education Centre) habituating a diversity of fauna and flora which if exploited sustain ably can contribute to sustained economic growth.

4.2.3.7 Tourism Facilities

- Uganda Wildlife Education Centre with a variety of animals including the Lion, Leopard, Crocodiles, Hippos, Chimpanzees, Monkeys, Snakes and birds.

- Historical sites such as Entebbe Za Mugula, and stunning sunset site at Nakiwogo landing site.

- Botanical Gardens with a variety of plant species from all over Uganda and Africa.

- The Council put up leisure parks like the Muzinga park and Mayors gardens.

- Sports facilities like the Entebbe Golf Course, Kakeeka cricket grounds, swimming pools at the three major hotels and various play grounds.

4.2.3.8 Strategic Objectives

- To facilitate participatory and inclusive governance of the municipality where various stakeholders have an input in decision making.

- To provide adequate and accessible health services to the urban

population.

- To increase the levels of education and literacy in the urban community.

- To avail all urban residents with community based services according to their needs.

- To identify sources and collect sufficient revenue from the urban population in order to deliver services that are commensurate with acceptable standards.

- To identify and harness additional sources of revenue to supplement local resources.

- To ensure availability of infrastructure facilities for example feeder roads, walkways, water, public buildings etc to all parts of the municipality.

4.2.3.9   *Strategic Initiatives*

- Placement of highly qualified and motivated human resource both elected and appointed.

- Continued bottom up participatory planning exercises aimed at capturing various stakeholders' inputs.

- Identification and widening of the revenue base of the municipality.

- Provision of more education infrastructure, scholastic materials and well trained teachers.

4.2.4   Services at Entebbe Municipal Council

The residents are engaged in a number of economic activities, which include Public service, trading, fishing, urban and peri-urban farming, aviation related activities, hotels, restaurants and construction.

4.2.4.1   Council's Core Functions

The Municipal council's main function is to mobilize internal and external resources and within the existing regulatory framework direct the resources towards addressing the following services

- Roars, Vehicle and Plant management

- Health services

- Water and Sanitation

- Gender

- Environmental concerns and recently council is shifting towards
  promoting the Town as a tourist destination.

4.2.4.2   Major Areas of Expenditure

The major areas of expenditure at the municipal council are delivery of services, which include road construction and maintenance, primary education, primary health care, development planning, physical planning, urban agriculture, street lighting, environmental management, open space management, setting council policies and solid waste management.

4.2.5 Information Usually Advertised

The municipal council usually advertises its jobs in the news papers and some times internally. Services are also advertised in order to get service providers to provide their services to the council. News and information to be communicated to the community as a whole is also passed on using posters, on radio TV and using public address systems on mobile pickups which move around the town.

4.2.6 Requirements for the new system

These are the things that users want to be included in the new system.

- The new system should be able to advertise the company name and services offered.

- The system should have the capability of handling online advertising campaigns like flash adverts among others.

- The site should be able to provide online information concerning the company services as required by clients.

- The site developed should be able to improve on public awareness about the company and what it does.

4.3 Summary

A total of 8 respondents were covered by the questionnaire of which 4 were females and 4 were males. The respondents interviewed were heads of departments. The majority were between 31-45 years. Most of them do not have internet in the offices. The departments in the municipal council were Finance and

Planning Department, Works and technical services section, Physical planning department, Education section, Health and environment section, Production section, Trade tourism and industry, Gender and community services section. The municipal council works towards contributing to poverty reduction through the provision of sustainable resources and quality services to the people. The residents are engaged in a number of economic activities, which include Public service, trading, fishing, urban and peri-urban farming, aviation related activities, hotels, restaurants and construction. The municipal council usually advertises its jobs in the news papers and some times internally. The major requirement of the new system is that it should be able to advertise the company name and services offered. The next chapter discusses the system requirements, design of the new website and draws conclusions and recommendations from the project.

CHAPTER FIVE

SYSTEM REQUIREMENTS AND DESIGN

5.0 Overview

The system requirements and design section includes the current system, problems with the current system, user requirements, functional and non functional requirements, system requirements, software requirements, system design and the types of pages.

5.1 Current System

In the current system, the advertising and communication media employed are print media, posters and announcing in public areas.

5.1.1 Problems with the Current System

The current system is faced with a number of problems most notably the following

- Important to note that traditional methods of advertising such as printing posters for adverts are more expensive than the new IT oriented ones.

- The current system makes it hard to track, measure results. Marketing by E-mail or website makes it easier to establish how effective the campaign has been.

- Also the current system limits the hours of the operations, unlike with the web-based advertising where marketing is done 24 hours, 7days a week and this will definitely help Entebbe municipal council to gain from this

marketing strategy.

⊚ The advertising campaign does not cover a wide area. It is confined tp people who buy news papers and in public areas with in Entebbe. The Website offers an international solution.

5.2 Requirements to be fulfilled by the Proposed System

This section presents the user, functional, non-functional and the system requirements

5.2.1 User Requirements

These are the things that users want to be included in the new system.

⊚ The new website should be able to advertise the company name and services offered.

⊚ The website should have the capability of handling online advertising campaigns like flash adverts among others.

⊚ The site should be able to provide online information concerning the company services as required by clients.

⊚ The site developed should be able to improve on public awareness about the company and what it does.

5.2.2 Functional Requirements

⊚ The system shows the councils name and title

⊚ The system clearly shows images of the municipal council.

- The system explains services offered at the council all the time

5.2.3   Non Functional Requirements

The system is fast enough such that it is able to load pages in the shortest possible time especially images. The system speaks out loudly for the council's image.

Reliability priority is high. Non-deficiency which is the degree to which software does not contain undetected defects. Fault tolerance which is the degree to which software will continue to work without system failure that would cause damage to users or property; also, the degree to which software includes degraded operation and recovery functions.

Maintainability priority is high, finding and fixing faults, adaptive that is to say modifying software for a changed environment, rewrite documentation or comments and renaming a variable or routine.

Portability priority is Medium. The soft ware is hard ware and software independent and accessible in a new environment.

Reusability priority is medium. The software can be reused across applications and is understood with ease.

5.3 System Requirements

This section describes the hardware and software requirements for the website

5.3.1 Hardware Requirements

- Hard disk capacity of 20GB or higher

- Uninterruptible power system

- Memory capacity of 512MB expandable to 1GB or more

- Internet connection

- Read on memory drive(ROM CD Drive)

- Printer

- CPU or processor of 133GHZ

5.3.2 Software Requirements

- Internet explorer

- Windows XP operating system

- Web server for example Apache, Mysql and PHP

5.4 System Design

Here is the detailed design of the new website.

5.4.1 Theme

The purpose of the website is to provide a solution for the communication system for marketing and creating awareness of services that are carried out at Entebbe

municipal council. This site shall meet the user's needs by providing pages with information about the services offered by the municipal council, which are accessed through the home page. Users are able to look for the information they need by navigating through pages following the links provided.

5.4.2 Design Layout for the Different Pages

Home page layout is illustrated below in figure 5.1.

Logo	Name					Contacts	
Link	Link	Link	Link	Link	Link	Link	Link
Picture				Text		Picture	
Text							
Links to other pages							

Figure 5.1 Home page lay out

The other pages all have the same lay out i.e About us, Services, Profile, Contact us, Tenders, Employment, Departments.

Logo	Name		Contacts
Picture			
Links to other pages (and links to departments for department's page)	Text		Text
Links to other pages			

Figure 5.2 Other pages lay out

5.4.3 Interface and Functionality (feed back)

In order to get successful feed backs from the site visits, users can send E-mails or even make phone calls to the municipal council asking questions or post comments through a E-mail provided on the home page known as contact us

5.4.4 Tools Used for Designing the Website

Web pages written in a special language called Hypertext Markup Language (HTML) and are stored on a web server. Web browsers interpret this document that is requested from a web server on the WWW. Therefore users view web pages using browsers like Mozilla Fire fox or Internet Explorer. However standard HTML runs every browser with easy accessibility.

The tools are HTML Editor. Note pad, Paint, Microsoft picture editor and Internet explorer.

5.4.5 Navigation and Consistency

Pages are laid out in a format that makes users read the necessary information on each page. The information such as the name of the municipal council appears on every page. Thus a user is able to read such information on the home page and is able to recognize the new information on other pages without reading the common information again as the website is updated regularly. The links are across the top side and at the bottom for easy navigation. Tables were used to control the positioning of the contents.

5.4.6 The Text Fonts

- Times new roman (Italics and bold)

- H2

- H1

5.4.7 Types of Graphics, Positioning and Amount

The types of graphics are jpg and gif. They are located at the top and on the left hand side of the home page and then one is located at the top of all the other pages. Image areas are described as such that incase one hovers the cursor over the image, they can read information about the image. They are fourteen in number. Few images are used so as the system can load faster.

5.4.8 Color Schemes

Desirable colors such as green, black, white, brick red and yellow are used to make the site interesting to the users. Basic color schemes are green, light green, yellow, brown, black and white.

5.5 Maintenance

This section is about the ease of maintenance of the webpage

5.5.1 Server side

Information such as the council's logo which is common to several pages was written in one file. Such a file is also included in an HTML code of every page to be executed, which has enabled those pages to access such information from that file. However this makes changes easy as you can only make a change to one page and other pages will change automatically.

5.5.2 Cascading Style Sheets

These sheets provide uniform format on every page especially to information that is bold and of the same color. This makes changes easy because the effect is uniform.

5.6 Links and Navigation

The users enter the site through the home page. The information and transaction pages on the home page are linked to each other. Links are completed by clicking

on the standard tool bar menu and a link icon is selected which then leads the user to view pages one at a time. This has made use of the tier and a hierarchical tree format for every navigation. Therefore selecting a link on the home page leads the user to other pages like contact us, about us, services among others.

5.7   Types of Pages

Pages like the contact us, about us, services are all linked to the home page. They are all information pages. These pages provide information to users of the site, these include

5.7.1   Home Page

This provides information about the municipal council, news and events and it has the links to all the other pages. The compilation of the home page consisted of a combination of different images, texts and formats among others. Images such as Headquarters' photo and the logo in addition with color formats are included. Pages such as services, about us were linked to each other to have an interesting home page that can attract attention and encourage people to navigate through the different pages.
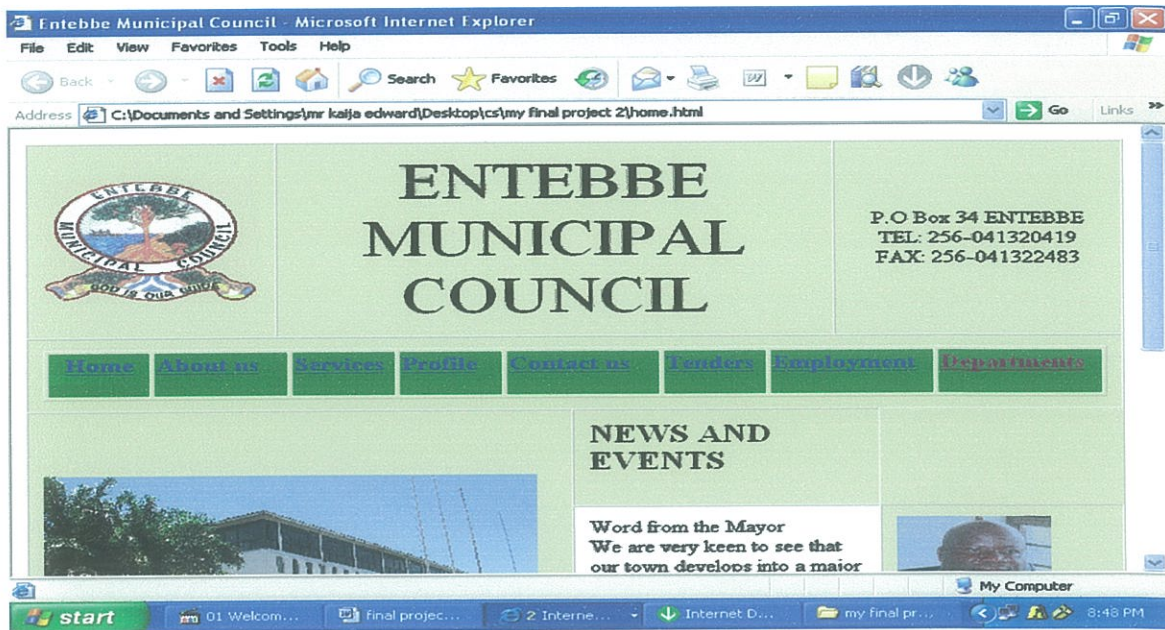
Figure 5.3 Home page

5.7.2 About us

This page has the vision, mission statement and the objectives of the Municipal
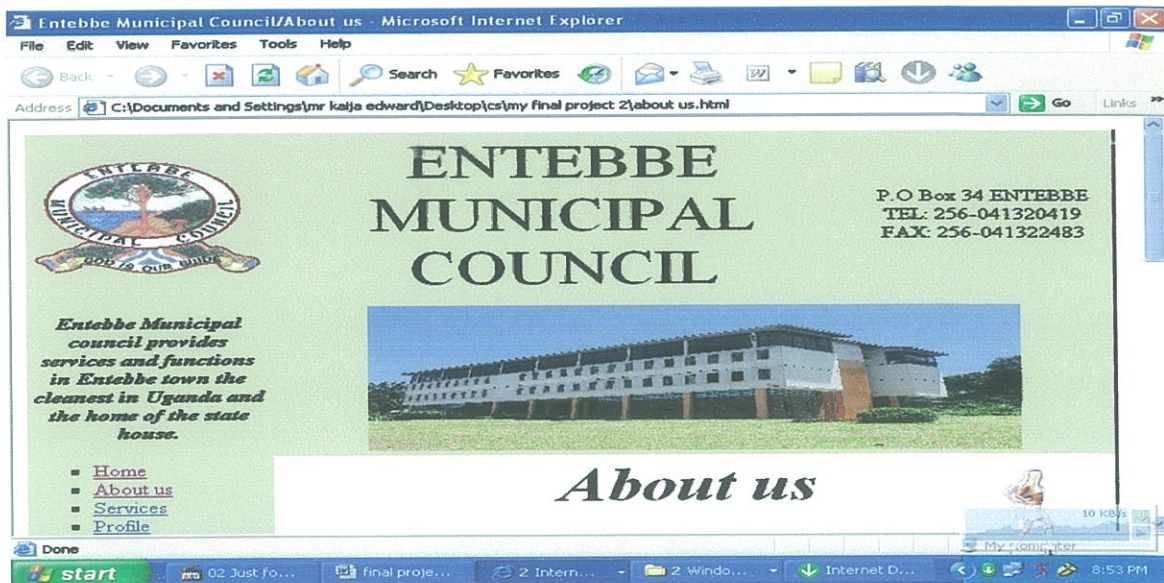
council.

Figure 5.4 About us page

5.7.3 Services

This page contains a list of the services offered at the municipal council plus ways or means of getting these services incase a user browsing on the internet needed to know more about a particular service.
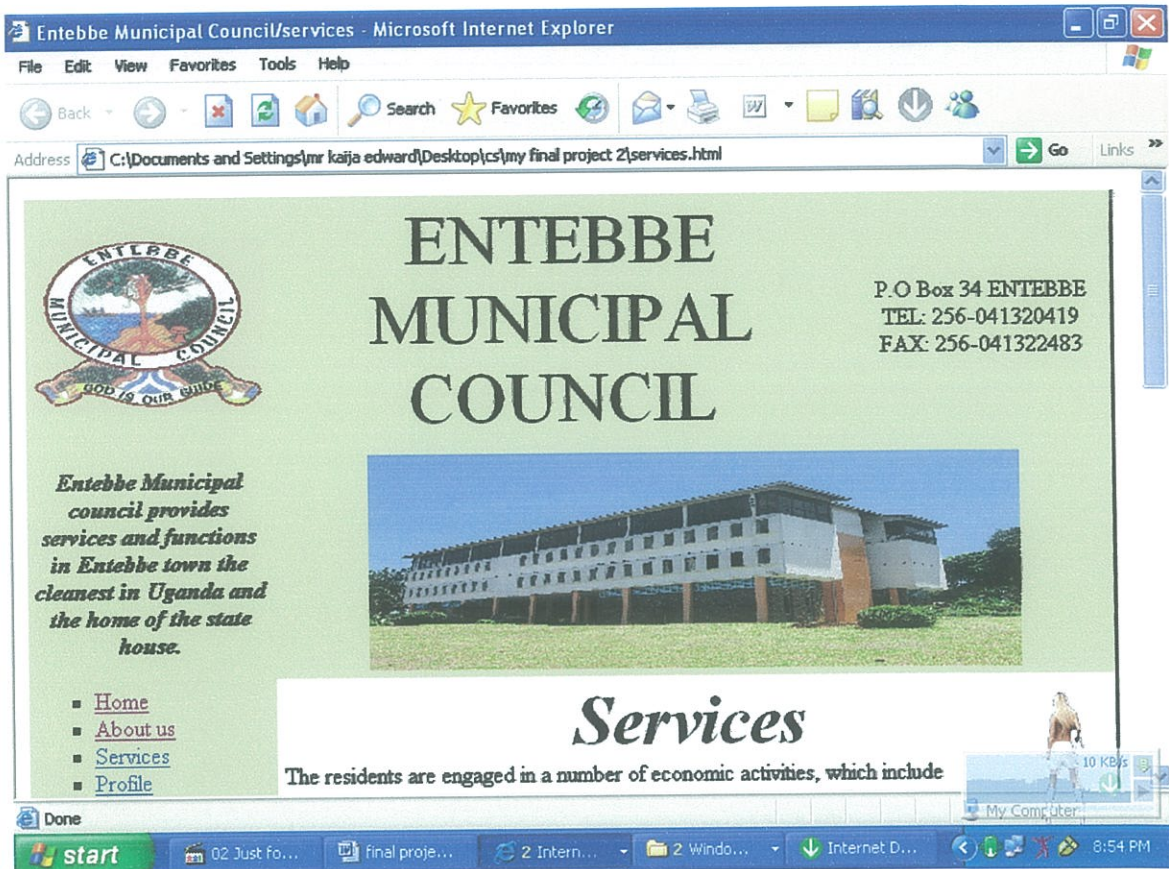
Figure 5.5 Services page

5.7.4 Profile

This page shows a brief profile about the municipal council such as the administrative units and the location.
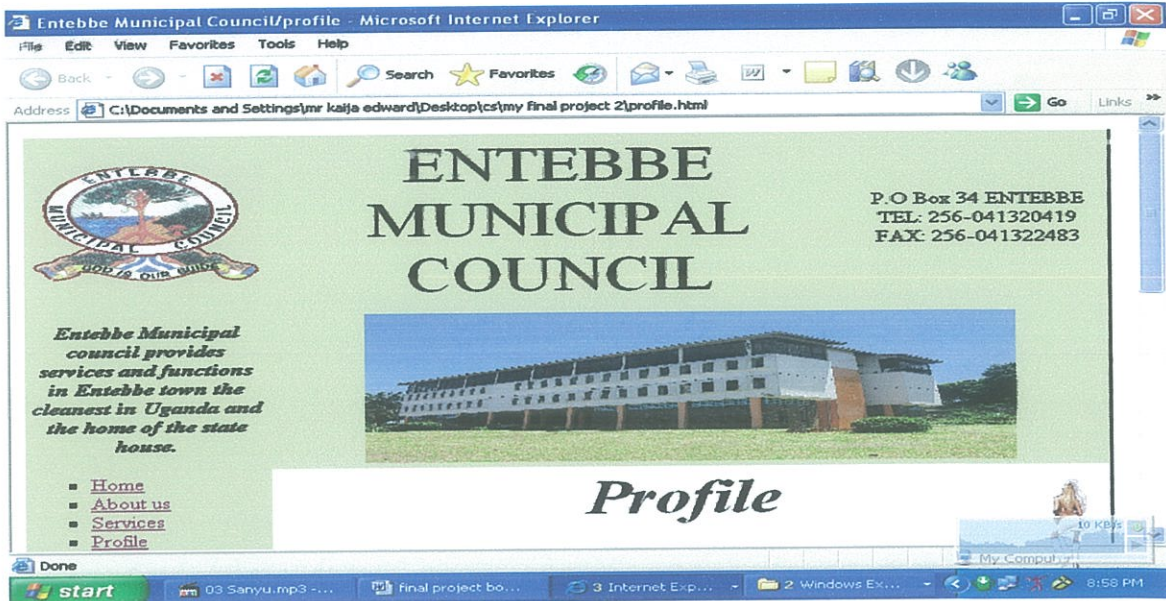
Figure 5.6 Profile page

5.7.5 Contact us.

This page provides Email address to use in case one is to contact the municipal

council plus some telephone numbers
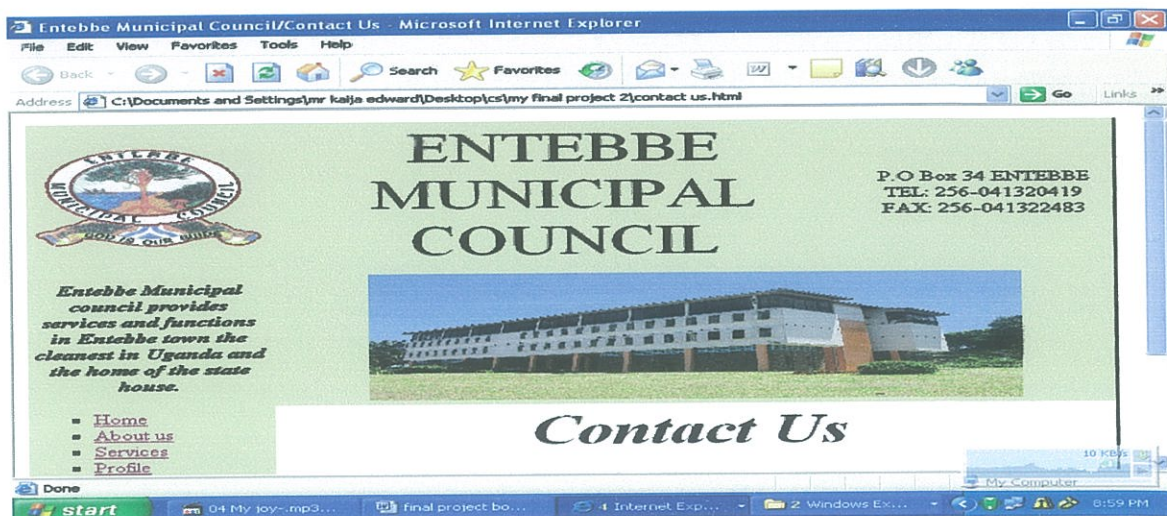
Figure 5.7 Contact us page

5.7.6 Tenders

This page shows all the tender openings at the municipal council
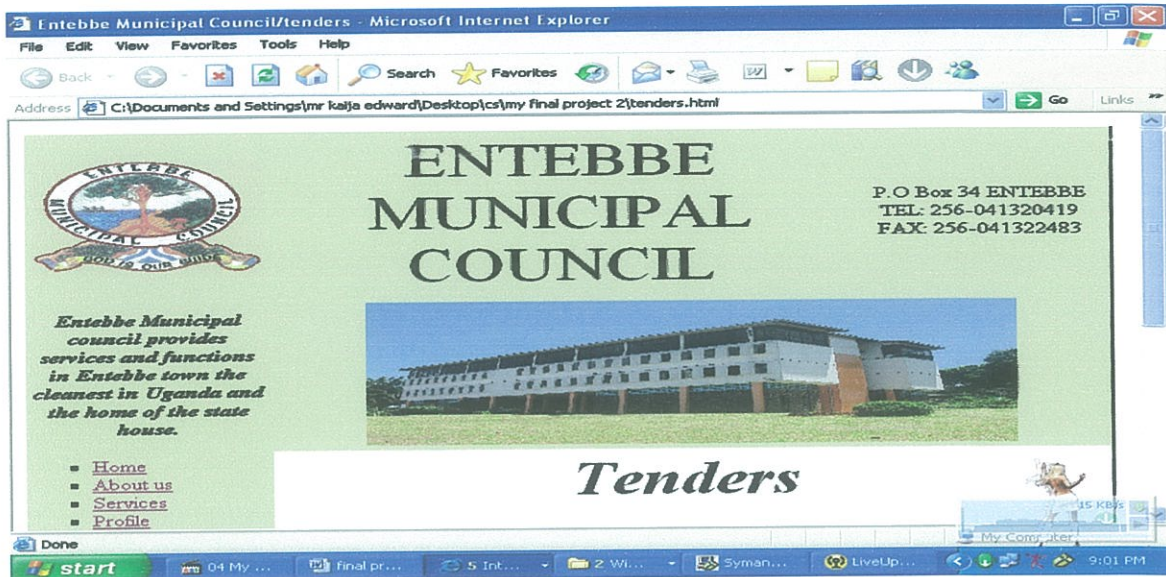
Figure 5.8 Tenders page

5.7.7 Employment

This page shows all the job openings available at the municipal council
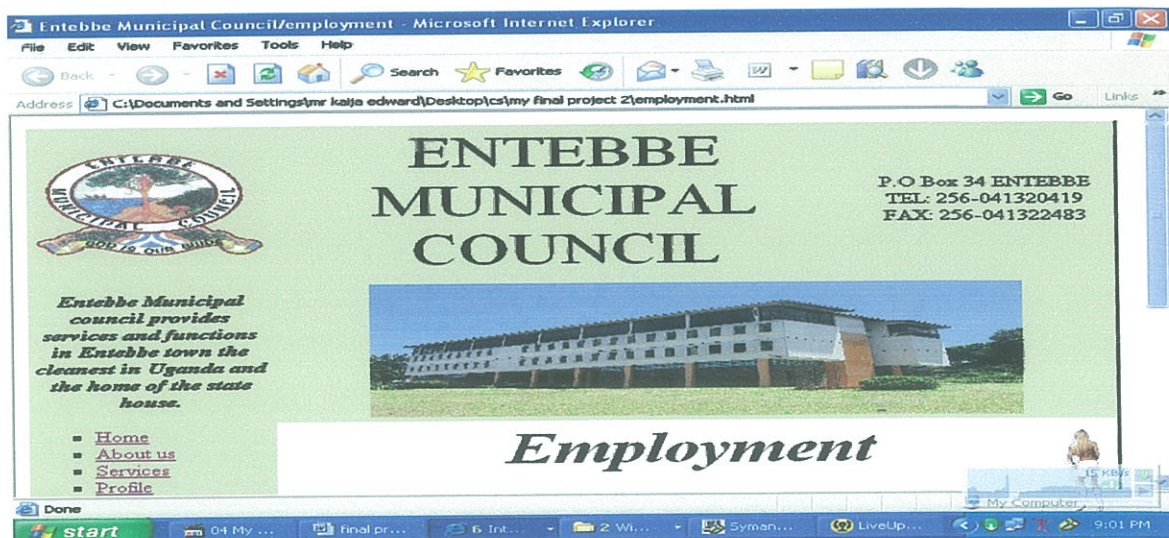
Figure 5.9 Employment page

49

5.7.8 Departments

This page shows all the departments in the municipal council and an explanation of the services they offer.
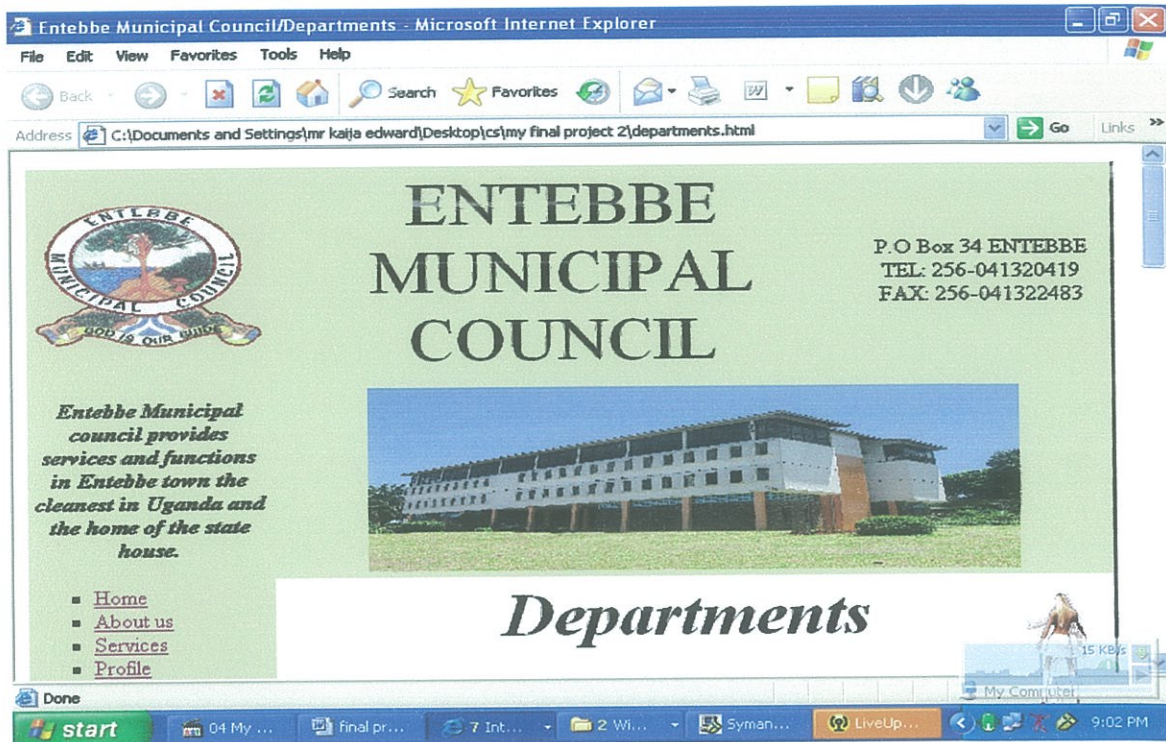
Figure 5.10 Departments page

5.8 Project Implementation and Testing

This section presents the implementation of the website solution.

5.8.1 Project Testing

The project was tested using internet explorer web browsers. This helped the researcher to find out the faults in the project before the final implementation of the whole project.

5.8.2 Project Implementation

The project has not yet been implemented. This will be done on approval and funding by the municipal council. The implementation of the system will be done using maxilla fire fox or internet explorer.

5.9 Discussion

Today web site development is improving as information technology grows there are many people who are getting the idea of employing web sites in their business in order to reduce on the number of problems that are likely to happen, thus attracting the attention of others. Entebbe Municipal Council is developing rapidly but still it faces a number of problems like no advertising campaign, low turn up and lack of an easy to get detailed information about the council. The current publicity means such as posters and word of mouth cannot market the council world wide. With the new website in place, the municipal council will have a computerized solution which will ease advertisement of jobs and tenders by the municipal council. Entebbe municipal council will also be exposed to a greater market segment that is the international market.

5.10 Conclusion

- The new system should be able to advertise the company name and services offered

- The system has the capability of handling online advertising Campaigns.

51

- The site provides online information concerning the company services as required by clients

- The site developed improves on public awareness about the company and what it does.

The website was designed and it addresses the above system requirements. The website was tested using internet explorer web browsers.

5.11   Recommendations

The municipal council should acquire resources to implement the website. Further research on developing a database for the website should be done.

5.12   Summary

The municipal council has a poor advertising campaign which comprises of print media, posters and announcing in public areas. The users want a system which should be able to advertise the company name and services offered. The website shows the councils name and title and is fast enough. Hardware requirements are hard disk capacity of 20 GB or higher, uninterruptible power system, memory capacity of 512mb expandable to 1 GB or more, internet connection and read on memory drive (ROM cd drive). The Software Requirements are internet explorer, windows XP operating system, web server for example Apache, Mysql and PHP and CPU or processor of 133GHZ. The tools used were HTML Editor, Note pad, Paint, Microsoft picture editor and Internet explorer. The types of pages are home page, about us, services, profile, contact us, tenders, employment and

departments. In conclusion, the website was designed and tested using internet explorer web browsers. The municipal council should acquire resources to implement the website.

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APPENDICES

APPENDIX A: QUESTIONAIRE

Dear participant,
This questionnaire is intended to facilitate a study a web solution for Entebbe Municipal Council. The information you will provide is purely for academic purposes and shall be treated with utmost confidentiality.
<u>Fill in/tick your best opinion</u>

A. RESPONDENTS BASIC BIODATA

1. Name (optional)_____ 2. Department _____

3. Occupation/ Profession _____ 4. Age_____Sex_____

B. INFORMATION

1. Do you have internet in your office?

   (i)Yes ☐   (ii) No ☐

2. What services are carried out in your department?

   _____

   _____

   _____

3. Tell me about Entebbe Municipal council and the services offered?

   _____

   _____

   _____

4. What do you usually advertise?

   _____

   _____

   _____

5. What requirements do you want for the website?

APPENDIX B: OBSERVATION GUIDE

1. Are there any good sites for a web site back ground?

APPENDIX C: CODE FOR THE HOME PAGE

```html
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
<html><head>
<title>Entebbe Municipal Council</title>

<link href="style.css" rel="stylesheet" type="text/css">
</head>

<body>
<table border="1" cellpadding="10" cellspacing="0" width="100%" background="q.gif"
>
<TR align="center" ><td colspan="2" width="20%"><img src="IMG_0335.jpg"
alt="LOGO" border="0" height="120" width="150"></td><TD colspan="4"
width="50%" ><font size="7" color="black" width="650">ENTEBBE MUNICIPAL
COUNCIL</FONT></td><td colspan="2" width="30%">P.O Box 34
ENTEBBE<br>TEL: 256-041320419<BR>FAX: 256-041322483</td></tr>
<tr><td colspan="8" width="100%">
<table border="1" width="100%" align="center"><tr bgcolor="green"
valign="middle"><td width="10%" valign="middle" align="center"><a
href="home.html" target="_top" ><h3>Home</h3></a></font></td>
<td width="13%"><a href="about us.html" target="_self" ><h3>About
us</h3></a></td>
<td width="10%"><a href="services.html" target="_self" ><h3>Services</h3></a></td>
<td width="10%"><a href="profile.html" target="_self" ><h3>Profile</h3></a></td>
<td width="15%"><a href="contact us.html" target="_self" ><h3>Contact
us</h3></a></td>
<td width="10%"><a href="tenders.html" target="_self" ><h3>Tenders</h3></a></td>
<td width="16%"><a href="employment.html" target="_self"
><h3>Employment</h3></a></td>
<td width="16%"><a href="departments.html" target="_self"
><h3>Departments</h3></td></tr></table></td></tr>
<TR><TD COLSPAN="4" rowspan="3" width="30%"><img src="IMG_0337.jpg"
alt="HEADQUATERS" border="0" height="240" width="340"><br><br>Entebbe
Municipal Council (EMC) is the administrative and political structure of Entebbe and has
been mandated with provision of services and functions in Entebbe town that enables
residents to live in a harmonious and environmentally safe place. </td>
<td COLSPAN="3" valign="bottom" width="45%"><h2>NEWS AND
EVENTS</h2></td><td width="25%"></td>
<tr><td COLSPAN="3"rowspan="2" valign="top" bgcolor="WHITE">Word from the
Mayor<br> We are very keen to see that our town develops into a major tourist
destination<br> so that we can share the history and beauty that residents are privileged
to<br> enjoy every day of our lives.  Whether you come as an investor, tourist or holiday
maker and indeed all our residents we are always ready to receive you. As usual we
welcome you in our dignified and friendly way to say<br> "Tusanyuse nnyo okubalaba".
```

```html
</td><td ><img src="mayor.jpg" alt="Home" border="0" height="94"
width="106"><br>
His worship Mr. stephen Kibuye is the  Mayor of Entebbe, assisted by a team of
Councillors and executives of the council, he has speared the transformation of Entebbe
into a modern town , the cleanest in Uganda and the home of the state house.</td></TR>
<tr><td>  </td></tr>
<tr bgcolor="green"><td colspan="8" align="center" ><font COLOR="YELLOW"><a
href="home.html" target="_top" >Home</a> l <a href="about us.html" target="_self"
>About us</a> l <a href="services.html" target="_self"  >Services</a> <br> <a
href="profile.html" target="_self" >Profile</a> l <a href="contact us.html" target="_self"
>Contact us</a> l <a href="tenders.html" target="_self" >Tenders</a> l <a
href="employment.html" target="_self" >Employment</a> l <a href="departments.html"
target="_self" >Departments</a><br>@Copy Right Entebbe Municipal
Council</font></Td></tr>
</table>
</body>
</HTML>
```

APPENDIX D: CODE FOR THE ABOUT US PAGE

```html
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
<html><head>
<title>Entebbe Municipal Council/About us</title>
<link href="style.css" rel="stylesheet" type="text/css">
</head>
<BODY>
<table border="0" cellpadding="5" cellspacing="0" width="100%">
<TR align="center" ><td BACKGROUND="q.GIF" width="10%"><img
src="IMG_0335.jpg" alt="LOGO" border="0" height="120" width="160"></td><TD
BACKGROUND="q.GIF" width="60%"><font size="7"
color="black"><center>ENTEBBE MUNICIPAL COUNCIL</center>.</FONT></td><td
BACKGROUND="q.GIF" width="30%">P.O Box 34 ENTEBBE<br>TEL: 256-
041320419<BR>FAX: 256-041322483</td><td rowspan="10"
background="strip.gif"></td></tr>
<TR align="center" ><td BACKGROUND="q.GIF"><b><i>Entebbe Municipal council
provides services and functions in Entebbe town the cleanest in Uganda and the home of
the state house.</b></i></td><td colspan="2" BACKGROUND="q.GIF"><img
src="IMG_0339.jpg" alt="Head quarters" border="0" height="150"
width="450"></td></tr>
<tr ><td valign="top" BACKGROUND="q.GIF"><UL TYPE="square">
<li><a href="home.html" target="_top" >Home</a>
<li><a href="about us.html" target="_top" >About us</a>
<li><a href="services.html" target="_top" >Services</a>
<li><a href="profile.html" target="_top" >Profile</a>
<li><a href="contact us.html" target="_top" >Contact us</a>
<li><a href="tenders.html" target="_top" >Tenders</a>
<li><a href="employment.html" target="_top" >Employment</a>
<li><a href="departments.html" target="_top" >Departments</a></ul></td>
<td rowspan="8" colspan="2" align="left"><font size="7"
color="black"><i><b><center>
About us</font></i></B></center>
<h2><center>Vision</h2></center>
<center>"A prosperous and development oriented population assessing quality services
and managing natural resources sustainably"</center>
<h2><center>Mission statement</h2></center>
<center>"To serve the people of Entebbe Municipality through coordinated Delivery of
services articulating both National and local priorities and committed to the improvement
in the overall quality of life in the Municipality "</center>
<h2><center>Overall goal</h2></center>
<center>To contribute to poverty reduction through the provision of sustainable
resources and quality services to the people.</center>
<h2><center>Strategic objectives</h2></center>
<ol type="I" start="1">
```

```
<li>To facilitate participatory and inclusive governance of the municipality where
                various stakeholders have an input in decision making.
        <li>To provide adequate and accessible health services to the urban population
            <li>To increase the levels of education and literacy in the urban community
To avail all urban residents with community based services according to their needs
<li>To identify sources and collect sufficient revenue from the urban population in order
                to deliver services that are commensurate with acceptable standards.
<li>To identify and harness additional sources of revenue to supplement local resources
<li>To ensure availability of infrastructure facilities for example feeder roads, walkways,
                water, public buildings etc to all parts of the municipality</ol>
                    <h2><center>Strategic initiatives</h2></center>
                        <ol type="I" start="1">
    <li>Placement of highly qualified and motivated human resource both elected and
                                appointed
    <li>Continued bottom up participatory planning exercises aimed at capturing various
                            stakeholders' inputs
        <li>Identification and widening of the revenue base of the municipality
    <li>Provision of more education infrastructure, scholastic materials and well trained
                                teachers.
                            </ol></td></tr>
                        <tr ><td> </td></tr>
                        <tr ><td> </td></tr>
                        <tr ><td> </td></tr>
                        <tr ><td> </td></tr>
                        <tr ><td> </td></tr>
                        <tr ><td> </td></tr>
                        <tr ><td> </td></tr
    <tr bgcolor="green"><td colspan="4" align="center" bgcolor="green" ><font
COLOR="YELLOW"><a href="home.html" target="_top" >Home</a> l <a href="about
    us.html" target="_self" >About us</a> l <a href="services.html" target="_self"
>Services</a> <br> <a href="profile.html" target="_self" >Profile</a> l <a href="contact
    us.html" target="_self" >Contact us</a> l <a href="tenders.html" target="_self"
    >Tenders</a> l <a href="employment.html" target="_self" >Employment</a> l <a
href="departments.html" target="_self" >Departments</a><br>@Copy Right Entebbe
                    Municipal Council</font></Td></tr>
                            </table>
                            </body>
                            </HTML>
```

APPENDIX E: CODE FOR THE SERVICES PAGE

```html
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
<html><head>
<title>Entebbe Municipal Council/services</title>
<link href="style.css" rel="stylesheet" type="text/css">
</head>
<BODY>
<table border="0" cellpadding="5" cellspacing="0" width="100%" >
<TR align="center" ><td BACKGROUND="q.GIF" width="10%"><img
src="IMG_0335.jpg" alt="LOGO" border="0" height="120" width="160"></td><TD
BACKGROUND="q.GIF" width="60%"><font size="7"
color="black"><center>ENTEBBE MUNICIPAL COUNCIL</center.</FONT></td><td
BACKGROUND="q.GIF" width="30%">P.O Box 34 ENTEBBE<br>TEL: 256-
041320419<BR>FAX: 256-041322483</td><td rowspan="10"
background="strip.gif"></td></tr>
<TR align="center" ><td BACKGROUND="q.GIF"><b><i>Entebbe Municipal council
provides services and functions in Entebbe town the cleanest in Uganda and the home of
the state house.</b></i></td><td colspan="2" BACKGROUND="q.GIF"><img
src="IMG_0339.jpg" alt="Head quarters" border="0" height="150"
width="450"></td></tr>
<tr ><td valign="top" BACKGROUND="q.GIF"><UL TYPE="square">
<li><a href="home.html" target="_top" >Home</a>
<li><a href="about us.html" target="_top" >About us</a>
<li><a href="services.html" target="_top" >Services</a>
<li><a href="profile.html" target="_top" >Profile</a>
<li><a href="contact us.html" target="_top" >Contact us</a>
<li><a href="tenders.html" target="_top" >Tenders</a>
<li><a href="employment.html" target="_top" >Employment</a>
<li><a href="departments.html" target="_top" >Departments</a></ul></td>
<td rowspan="8" colspan="2" align="left"><font size="7"
color="black"><i><b><center>
Services</font></i></B></center>
The residents are engaged in a number of economic activities, which include
<UL TYPE="CIRCLE">
<li>Public service
<li>Trading
<li>Fishing
<li>Urban and peri-urban farming
<li>Aviation related activities
<li>Hotels and Restaurants
<li>Construction
</ul>
<h2><center>Council's Core Functions</h2></center>
```

The Municipal council's main function is to mobilize internal and external resources and within the existing regulatory framework direct the resources towards addressing the following services
<UL TYPE="CIRCLE">
Roads. Vehicle and Plant management
Health services
Water and Sanitation
Gender
Environmental concerns and recently council is shifting towards promoting the Town as a tourist destination.
<h2><center>Major areas of expenditure</h2></center>
Delivery of services, which include
<UL TYPE="CIRCLE">
Road Construction and Maintenance
Primary education
Primary Health Care
Development Planning
Physical Planning
Urban Agriculture
Street Lighting
Environmental Management
Open Space Management
Setting council policies
Solid waste management
</td></tr>
<tr ><td> </td></tr>
<tr ><td> </td></tr>
<tr ><td> </td></tr>
<tr ><td> </td></tr>
<tr ><td> </td></tr>
<tr ><td> </td></tr>
<tr ><td> </td></tr>
<tr bgcolor="green"><td colspan="4" align="center" bgcolor="green" >Home 1 About us 1 Services
 Profile 1 Contact us 1 Tenders 1 Employment 1 Departments
@Copy Right Entebbe Municipal Council</Td></tr>
</table>
</body>
</HTML>

APPENDIX F: CODE FOR THE PROFILE PAGE

```html
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
<html><head>
<title>Entebbe Municipal Council/profile</title>
<link href="style.css" rel="stylesheet" type="text/css">
</head>
<BODY>
<table border="0" cellpadding="5" cellspacing="0" width="100%" >
<TR align="center" ><td BACKGROUND="q.GIF" width="10%"><img
src="IMG_0335.jpg" alt="LOGO" border="0" height="120" width="160"></td><TD
BACKGROUND="q.GIF" width="60%"><font size="7"
color="black"><center>ENTEBBE MUNICIPAL COUNCIL</center.</FONT></td><td
BACKGROUND="q.GIF" width="30%">P.O Box 34 ENTEBBE<br>TEL: 256-
041320419<BR>FAX: 256-041322483</td><td rowspan="10"
background="strip.gif"></td></tr>
<TR align="center" ><td BACKGROUND="q.GIF"><b><i>Entebbe Municipal council
provides services and functions in Entebbe town the cleanest in Uganda and the home of
the state house.</b></i></td><td colspan="2" BACKGROUND="q.GIF"><img
src="IMG_0339.jpg" alt="Head quarters" border="0" height="150"
width="450"></td></tr>
<tr ><td valign="top" BACKGROUND="q.GIF"><UL TYPE="square">
<li><a href="home.html" target="_top" >Home</a>
<li><a href="about us.html" target="_top" >About us</a>
<li><a href="services.html" target="_top" >Services</a>
<li><a href="profile.html" target="_top" >Profile</a>
<li><a href="contact us.html" target="_top" >Contact us</a>
<li><a href="tenders.html" target="_top" >Tenders</a>
<li><a href="employment.html" target="_top" >Employment</a>
<li><a href="departments.html" target="_top" >Departments</a></ul></td>
<td rowspan="8" colspan="2" align="left"><font size="7"
color="black"><i><b><center>
Profile</font></i></B></center>
<h2><center>Location</h2></center>
```
The municipality lies at 00.4N, 320.28E, and is 37 kilometers south of Kampala, the
Capital City. It is situated in Wakiso district one of the districts bordering lake Victoria in
the south.
```html
<h2><center>Administrative units</h2></center>
```
The Municipality has a number of administrative units. There are 2 Divisions A & B and
each Division has 2 wards. The Municipality has 24 sunwards.
```html
<h2><center>Natural resources</h2></center>
```
Entebbe municipality is endowed with several natural resources and unique man-made
features (a 70 acre botanical gardens, zoo-Uganda Wildlife Education Centre) habituating
a diversity of fauna and flora which if exploited sustain ably can contribute to sustained
economic growth.
```html
<h2><center>Tourism facilities</h2></center>
```

```html
<UL TYPE="CIRCLE">
<li>Uganda Wildlife Education Centre with a variety of animals including the Lion,
Leopard, Crocodiles, Hippos, Chimpanzees, Monkeys. Snakes and Birds.
<li>Historical sites such as Entebbe Za Mugula, and stunning sunset site at Nakiwogo
landing site.
Botanical Gardens with a variety of plant species from all over Uganda and Africa.
<li>The Council put up leisure parks like the Muzinga park and Mayors Gardens.
<li>Sports facilities like the Entebbe Golf Course, Kakeeka cricket grounds, Swimming
pools at the three major hotels and various play grounds.
</ul>
</td></tr>
<tr ><td> </td></tr>
<tr ><td> </td></tr>
<tr ><td> </td></tr>
<tr ><td> </td></tr>
<tr ><td> </td></tr>
<tr ><td> </td></tr>
<tr ><td> </td></tr>
<tr bgcolor="green"><td colspan="4" align="center" bgcolor="green" ><font
COLOR="YELLOW"><a href="home.html" target="_top" >Home</a> 1 <a href="about
us.html" target="_self" >About us</a> 1 <a href="services.html" target="_self"
>Services</a> <br> <a href="profile.html" target="_self" >Profile</a> 1 <a href="contact
us.html" target="_self" >Contact us</a> 1 <a href="tenders.html" target="_self"
>Tenders</a> 1 <a href="employment.html" target="_self" >Employment</a> 1 <a
href="departments.html" target="_self" >Departments</a><br>@Copy Right Entebbe
Municipal Council</font></Td></tr>
</table>
</body>
</HTML>
```

APPENDIX G: CODE FOR THE CONTACT US PAGE

```html
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
<html><head>
<title>Entebbe Municipal Council/Contact Us</title>
<link href="style.css" rel="stylesheet" type="text/css">
</head>
<BODY>
<table border="0" cellpadding="5" cellspacing="0" width="100%" >
<TR align="center" ><td BACKGROUND="q.GIF" width="10%"><img
src="IMG_0335.jpg" alt="LOGO" border="0" height="120" width="160"></td><TD
BACKGROUND="q.GIF" width="60%"><font size="7"
color="black"><center>ENTEBBE MUNICIPAL COUNCIL</center.</FONT></td><td
BACKGROUND="q.GIF" width="30%">P.O Box 34 ENTEBBE<br>TEL: 256-
041320419<BR>FAX: 256-041322483</td><td rowspan="10"
background="strip.gif"></td></tr>
<TR align="center" ><td BACKGROUND="q.GIF" ><b><i>Entebbe Municipal
council provides services and functions in Entebbe town the cleanest in Uganda and the
home of the state house.</b></i></td><td colspan="2" BACKGROUND="q.GIF" ><img
src="IMG_0339.jpg" alt="Head quarters" border="0" height="150"
width="450"></td></tr>
<tr ><td valign="top" BACKGROUND="q.GIF" ><UL TYPE="square">
<li><a href="home.html" target="_top" >Home</a>
<li><a href="about us.html" target="_top" >About us</a>
<li><a href="services.html" target="_top" >Services</a>
<li><a href="profile.html" target="_top" >Profile</a>
<li><a href="contact us.html" target="_top" >Contact us</a>
<li><a href="tenders.html" target="_top" >Tenders</a>
<li><a href="employment.html" target="_top" >Employment</a>
<li><a href="departments.html" target="_top" >Departments</a></ul></td>
<td rowspan="8" colspan="2" align="left" valign="top"><font size="7"
color="black"><i><b><center>
Contact Us</font></i></B></center><br><center> P.O Box 34 ENTEBBE<br>TEL:
256-041320419<BR>FAX: 256-041322483<br> E-mail:
<A href="mailto:entebbemc@yahoo.com">entebbemc@yahoo.com</A><br>
www.EMC.org</center>
</TD></TR><tr bgcolor="green"><td colspan="4" align="center"
bgcolor="green" ><font COLOR="YELLOW"><a href="home.html" target="_top"
>Home</a> 1 <a href="about us.html" target="_self" >About us</a> 1 <a
href="services.html" target="_self" >Services</a> <br> <a href="profile.html"
target="_self" >Profile</a> 1 <a href="contact us.html" target="_self" >Contact us</a> 1
<a href="tenders.html" target="_self" >Tenders</a> 1 <a href="employment.html"
target="_self" >Employment</a> 1 <a href="departments.html" target="_self"
>Departments</a><br>@Copy Right Entebbe Municipal Council</font></Td></tr>
</table></body></HTML>
```

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
<html><head>
<title>Entebbe Municipal Council/tenders</title>
<link href="style.css" rel="stylesheet" type="text/css">
</head>
<BODY>
<table border="0" cellpadding="5" cellspacing="0" width="100%" >
<TR align="center" ><td BACKGROUND="q.GIF" width="10%"><img
src="IMG_0335.jpg" alt="LOGO" border="0" height="120" width="160"></td><TD
BACKGROUND="q.GIF" width="60%"><font size="7"
color="black"><center>ENTEBBE MUNICIPAL COUNCIL</center.</FONT></td><td
BACKGROUND="q.GIF" width="30%">P.O Box 34 ENTEBBE<br>TEL.: 256-
041320419<BR>FAX: 256-041322483</td><td rowspan="10"
background="strip.gif"></td></tr>
<TR align="center" ><td BACKGROUND="q.GIF" ><b><i>Entebbe Municipal
council provides services and functions in Entebbe town the cleanest in Uganda and the
home of the state house.</b></i></td><td colspan="2" BACKGROUND="q.GIF" ><img
src="IMG_0339.jpg" alt="Head quarters" border="0" height="150"
width="450"></td></tr>
<tr ><td valign="top" BACKGROUND="q.GIF"><UL TYPE="square">
<li><a href="home.html" target="_top" >Home</a>
<li><a href="about us.html" target="_top" >About us</a>
<li><a href="services.html" target="_top" >Services</a>
<li><a href="profile.html" target="_top" >Profile</a>
<li><a href="contact us.html" target="_top" >Contact us</a>
<li><a href="tenders.html" target="_top" >Tenders</a>
<li><a href="employment.html" target="_top" >Employment</a>
<li><a href="departments.html" target="_top" >Departments</a></ul></td>
<td rowspan="8" colspan="2" align="left" valign="top"><font size="7"
color="black"><i><b><center>
Tenders</font></i></B></center><br><br><br>
<center>Currently there are no postings</center>
</td></tr>
<tr ><td> </td></tr>
<tr ><td> </td></tr>
<tr ><td> </td></tr>
<tr ><td> </td></tr>
<tr ><td> </td></tr>
<tr ><td> </td></tr>
<tr ><td> </td></tr>
<tr bgcolor="green"><td colspan="4" align="center" bgcolor="green" ><font
COLOR="YELLOW"><a href="home.html" target="_top" >Home</a> l <a href="about
us.html" target="_self" >About us</a> l <a href="services.html" target="_self"
>Services</a> <br> <a href="profile.html" target="_self" >Profile</a> l <a href="contact
```

us.html" target="_self" >Contact us | <a href="tenders.html" target="_self"
>Tenders | Employment | <a
href="departments.html" target="_self" >Departments
@Copy Right Entebbe
Municipal Council</Td></tr>
</table>
</body>
</HTML>

APPENDIX I: CODE FOR THE EMPLOYMENT PAGE

```html
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
<html><head>
<title>Entebbe Municipal Council/employment</title>
<link href="style.css" rel="stylesheet" type="text/css">
</head>
<BODY>
<table border="0" cellpadding="5" cellspacing="0" width="100%" >
<TR align="center" ><td BACKGROUND="q.GIF" width="10%"><img
src="IMG_0335.jpg" alt="LOGO" border="0" height="120" width="160"></td><TD
BACKGROUND="q.GIF" width="60%"><font size="7"
color="black"><center>ENTEBBE MUNICIPAL COUNCIL</center.</FONT></td><td
BACKGROUND="q.GIF" width="30%">P.O Box 34 ENTEBBE<br>TEL: 256-
041320419<BR>FAX: 256-041322483</td><td rowspan="10"
background="strip.gif"></td></tr>
<TR align="center" ><td BACKGROUND="q.GIF" ><b><i>Entebbe Municipal
council provides services and functions in Entebbe town the cleanest in Uganda and the
home of the state house.</b></i></td><td colspan="2" BACKGROUND="q.GIF" ><img
src="IMG_0339.jpg" alt="Head quarters" border="0" height="150"
width="450"></td></tr>
<tr ><td valign="top" BACKGROUND="q.GIF"><UL TYPE="square">
<li><a href="home.html" target="_top" >Home</a>
<li><a href="about us.html" target="_top" >About us</a>
<li><a href="services.html" target="_top" >Services</a>
<li><a href="profile.html" target="_top" >Profile</a>
<li><a href="contact us.html" target="_top" >Contact us</a>
<li><a href="tenders.html" target="_top" >Tenders</a>
<li><a href="employment.html" target="_top" >Employment</a>
<li><a href="departments.html" target="_top" >Departments</a></ul></td>
<td rowspan="8" colspan="2" align="left" valign="top"><font size="7"
color="black"><i><b><center>
Employment</font></i></B></center><br><br><br>
<center>Currently there are no postings</center>
</td></tr>
<tr ><td> </td></tr>
<tr ><td> </td></tr>
<tr ><td> </td></tr>
<tr ><td> </td></tr>
<tr ><td> </td></tr>
<tr ><td> </td></tr>
<tr ><td> </td></tr>
<tr bgcolor="green"><td colspan="4" align="center" bgcolor="green" ><font
COLOR="YELLOW"><a href="home.html" target="_top" >Home</a> l <a href="about
us.html" target="_self" >About us</a> l <a href="services.html" target="_self"
>Services</a> <br> <a href="profile.html" target="_self" >Profile</a> l <a href="contact
```

us.html" target="_self" >Contact us 1 Tenders 1 Employment 1 Departments
@Copy Right Entebbe Municipal Council</Td></tr>
</table>
</body>
</HTML>

APPENDIX J: CODE FOR THE DEPARTMENT PAGE

```html
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
<html><head>
<title>Entebbe Municipal Council/Departments</title>
<link href="style.css" rel="stylesheet" type="text/css">
</head>
<BODY>
<table border="0" cellpadding="5" cellspacing="0" width="100%" >
<TR align="center" ><td BACKGROUND="q.GIF" width="10%"><img
src="IMG_0335.jpg" alt="LOGO" border="0" height="120" width="160"></td><TD
BACKGROUND="q.GIF" width="60%"><font size="7"
color="black"><center>ENTEBBE MUNICIPAL COUNCIL</center.</FONT></td><td
BACKGROUND="q.GIF" width="30%">P.O Box 34 ENTEBBE<br>TEL: 256-
041320419<BR>FAX: 256-041322483</td><td rowspan="10"
background="strip.gif"></td></tr>
<TR align="center" ><td BACKGROUND="q.GIF" ><b><i>Entebbe Municipal
council provides services and functions in Entebbe town the cleanest in Uganda and the
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src="IMG_0339.jpg" alt="Head quarters" border="0" height="150"
width="450"></td></tr>
<tr ><td valign="top" BACKGROUND="q.GIF"><UL TYPE="square">
<li><a href="home.html" target="_top" >Home</a>
<li><a href="about us.html" target="_top" >About us</a>
<li><a href="services.html" target="_top" >Services</a>
<li><a href="profile.html" target="_top" >Profile</a>
<li><a href="contact us.html" target="_top" >Contact us</a>
<li><a href="tenders.html" target="_top" >Tenders</a>
<li><a href="employment.html" target="_top" >Employment</a>
<li><a href="departments.html" target="_top" >Departments</a></ul></td>
<td rowspan="8" colspan="2" align="left" valign="top"><font size="7"
color="black"><i><b><center>
Departments</font></i></B></center>
<h2><center><a name="Finance and Planning Department">Finance and
Planning</a></h2></center>
```
The finance sector is responsible for identifying sources and collecting sufficient revenue from the urban population and harnessing additional sources of revenue to supplement local resources. The council finances its programs from a number of Revenue sources both internal and external. Internal sources include taxes, licenses, fees, rates and rent. External sources include grants and donations. The finance department is charged with administering all revenues legally accruing to Council and ensuring enhanced accountability through better planning, budgeting, disbursement and monitoring. The council has the following key sources of local revenue.
```html
<UL TYPE="CIRCLE">
<li>Graduated tax
<li>Rates and rent
```

Administration fees and licenses
Debtors and other miscellaneous revenue

In the planning section the overall goal is to provide integrated planning for services covering sectoral plans, policies and to monitor and evaluate the implemented activities yet providing timely information on planned activities carried out by all sectors.
<h2><center>Works and Technical Services Section</h2></center>
This sector is responsible for ensuring availability of infrastructure facilities for example feeder roads, walkways, water, public buildings etc to all parts of the municipality. The department has executed various routine and project works including road maintenance of tarmac and gravel roads, electrical, old and new streetlights and vehicle and plant management. It also carries out supervision of building projects for council and private developers and ensures compliance to detailed town plans during development.
<h2><center>Physical Planning Department</h2></center>
The department is evolving into an independent sector and is responsible for developing the outline scheme which has had many good qualities and has attributed to a number of achievements in the municipality. The outline scheme has been able to give some guidelines to development and has acted as a base map, which has enabled other maps for Entebbe to be prepared.
However today the practice has been flouted and reversed. What is on the ground is that land is first occupied, then it's developed and services are installed after which planning follows. Physical planning in Entebbe seeks to redress the imbalance and secure future settlement on a planned basis.
<h2><center>Education section</h2></center>
The council has been able to implement its plans through the education department, which focuses on primary, pre-primary and sports in order to achieve the expected impact within the schools of this municipality.
This sector receives a number of grants from the central Government, which include school facilities Grant, Universal Primary Education Grant and Secondary Capitation Grant. These grants have greatly contributed to the achievements of the sector.
<h2><center>Health and Environment Section</h2></center>
The department is charged with the responsibility of supporting health promoting and disease preventing interventions of primary Health care as well as the related environment protection interventions.
In order to strengthen management of health services and to improve on equity of access to essential health services the municipality has a government hospital and about 25 private clinics.
<h2><center>Production Section</h2></center>
The production department was formed in Entebbe Municipal Council in 1999 in line with the Government efforts to alleviate poverty. Urban and peri urban agriculture are increasingly effective strategies in the reduction of urban poverty and enhancement of food security, health and nutrition in the community.

```html
<h2><center><a name="Gender and Community Services Section">Gender and
Community Services Section</a></h2></center>
```
This sector is charged with ensuring that the gender gap existing is addressed and it also
avails all urban residents with community-based services that are commensurate with
accepted standards.
```html
<h2><center><a name="Trade Tourism and Industry">Trade Tourism and
Industry</a></h2></center>
```
Tourism trade and transportation are the heart of the livelihood in Entebbe municipality.
However it is desirable for the council to come up with deliberately targeted promotion
activities such as garbage collection and street lighting. The private sector is the
significant actor in tourism, trade, industry and transportation.
```html
</td></tr>
<tr ><td><h4>Departments at a glance</h4><UL TYPE="CIRCLE">
<li><a href="#Finance and Planning Department">Finance and Planning
Department</a>
<li><a href="#Works and Technical Services Section">Works and Technical</a>
<li><a href="#Physical Planning Department">Physical Planning</a>
<li><a href="#Education section">Education</a>
<li><a href="#Health and Environment Section">Health and Environment</a>
<li><a href="#Production Section">Production</a>
<li><a href="#Gender and Community Services Section">Gender and Community </a>
<li><a href="#Trade Tourism and Industry">Trade Tourism and
Industry</a></ul></td></tr>
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us.html" target="_self" >About us</a> l <a href="services.html" target="_self"
>Services</a> <br> <a href="profile.html" target="_self" >Profile</a> l <a href="contact
us.html" target="_self" >Contact us</a> l <a href="tenders.html" target="_self"
>Tenders</a> l <a href="employment.html" target="_self" >Employment</a> l <a
href="departments.html" target="_self" >Departments</a><br>@Copy Right Entebbe
Municipal Council</font></Td></tr>
</table>
</body>
</HTML>
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75