ONLINE TAXI MANAGEMENT SYSTEM

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A **Project Proposal** Submitted to the Faculty of science Technology, art and design for the Study Leading to a Project in Partial Fulfillment of the Requirements for the Award of the Degree of Bachelor of information Technology of Muteesa 1 Royal University.

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CHAPTER 1
INTRODUCTION
ONLINE TAXI MANAGEMENT SYSTEM

Case study is **Masaka City Taxi Park**

Today, everyone wants convenience and comfort in daily life activities, Travelling is also a major part of day-to-day activities and in same case also, people want comfort in a journey.

Online taxi management system is a management system which lets you book a taxi for travel purpose using your Smartphone and provides you the service that will make your journey more luxurious.

In masaka city taxi park, passengers have to move long distances or to make manual calls in order to reserve any taxi for the journey also the taxi drivers and conductors gather passengers information using pen and paper. This method is discovered to be time consuming and it is tiresome so there is need to come up with an online taxi management system for masaka city taxi park.

BACKGROUND

In transportation, a taxi is a type of vehicle for hire with a driver, used by a single passenger or small group of passengers often for a non-shared ride.

- Masaka bus terminal was commissioned in 1953 and 43 years later the town got a modern taxi park, this was constructed to facilitate transport and to attract revenue to support the municipality and service delivery(newvision.co.ug)

- In Uganda public transport was suspended due to the ongoing worldwide COVID 19 pandemic on 26th march 2020, this hindered people from moving and using taxis, coasters, buses. Later on 4th June 2020 it resumed and a fewer number of people allowed to use taxis and handwritten record keeping of customer details was required, So this has affected the drivers since its time consuming to use books for writing all passengers' records.

- This problem has been in existence for a long time and it surged due to COVID 19 pandemic as conductors and drivers were required to keep records of their passengers.

PROBLEM STATEMENT

- To develop an online taxi management system for Masaka city taxi park because currently people have to make manual calls to reserve a taxi even taxi drivers and conductors carry books for recording passenger details. This management system will check to see which vehicle is available in the taxi park. So customers do not need to make calls and spend unnecessary time in order to get a taxi.

PROJECT OBJECTIVES

The objectives of the online taxi management system is;

General Objective:

- To automate taxi reservation in Masaka city taxi park by designing a Taxi management system.

Specific Objectives:

1. To keep the information of passengers.
2. To keep the information on passengers.
3. To create an easy to use and free method of complaints.
4. To keep the information of cancellation and modification of booking in current month.
5. To maintain the record of the every employee(drivers & conductors) of every route.
6. For easy response to passengers by drivers.
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SIGNIFICANCE

- Reduced costs
- Records are easy to keep.
- Centralized data handling for the taxi park.
- Offer safety to passengers.
- The study will allow users to save time.
- The study will give accurate information.
- Monitoring of the drivers and their routes.

SCOPE

- The research is specifically focusing on the creation of a taxi management system for the Masaka city taxi park which will lead to proper records keeping.
- The study will be carried out in Masaka city taxi park in the month of November 2021. it will target taxi drivers, passengers both men and women, young and old.

Time scope

- The study will take a period of four months and this period will be enough for all the necessary activities.

The goal of the online taxi management system is to;

- Help passengers make taxi reservations any time.
- Save time of moving long distances to the taxi park.
- Easy monitoring of taxis.
- To make transport system more clear and easier in Masaka city.

CHAPTER 2

REVIEW OF EXISTING SYSTEM

- Passengers currently in Masaka city use a manual system for booking taxis where by they go to the taxi park, they sit in the park and wait until when they get a taxi to travel to their destinations. Also taxi drivers and conductors record passenger details using pen and paper.

- This system takes a lot of time for passengers waiting for taxis.

METHODOLOGY

The aspect deals with steps, processes and procedures which will be adopted in carrying out the study. The research will conduct a study under the following; research design, target population, sampling techniques, procedure of data collection.

RESEARCH DESIGN

A descriptive research design for the study utilizing qualitative data will be adopted. The research will also use questionnaires. Priority in the study will be given to the quantitative phrase, Leedy and Ormrod 2013, stated quantitative implies that data is in the form of words as opposed to numbers some quantitative techniques were also used to collect data along.

TARGET POPULATION

The study was carried out in Masaka city taxi park and the target population includes the taxi drivers, the passengers both men and women, young and old because all these people use taxi and were all affected by the problem.

SAMPE SIZE

The study is to be carried out on a sample of 50 people including taxi drivers, conductors, passengers in order to gather all the necessary information for the study

DEVELOPMENT TOOLS

•Net beans

•Android studio

•Html

•MySQL

BENEFITS

- Convenience for customers

- Passengers will be able to book taxis any time

- Simplified record keeping for passengers, drivers and tracking taxis routes.

- The system saves time.

CHAPTER 3

SYSTEM FEATURES

- Passengers Login page

- Admin login page

- Information of available taxis for travelers

- Prices for reservation

- Payment details for passengers

SAMPLING TECHNIQUES

- According to Mugenda, O. M. &Mugenda A.G. (2002) sample random sampling defines the population to be studied, determining the sample size, assigning each member of the population and number and then using the selected numbers from a table of numbers, giving each individual equal chance of being selected for sample. In this case a random sampling technique will be used because it will give chance for any one to be selected randomly.

DATA COLLECTION TOOLS

- In order to undertake this study successful, data from primary sources was collected using interviews, observations and questionnaires. Groups that Will be interviewed included taxi drivers, conductors, passengers both men and women including young and old. Secondary data will also be obtained from past research reports from the ministry of works and transport

DATA COLLECTION TECHNIQUES

DATA ANALYSIS

- The analysis of data gives ideas, in-depth information and findings of about the study.
- Data where necessary will be processed and will be presented in a form of percentages, tables to give a picture of the analyzed data.
- Responses to the various items raised in the questionnaire will be interpreted and analyzed according to the research objectives. Responses shall be quantified into frequencies and later on turned into percentages for data interpretation. Summaries of the findings shall be made in relation to the study to develop an online taxi management system for masaka city taxi park.
- Conclusions and recommendations made in relation to the study to develop an online taxi management system for masaka city taxi park.

SOFTWARE DEVELOPMENT METHODOLOGY

The software will be designed, developed and implemented as per the plan. upgrades shall also be needed incase old versions of the software are in use. The system shall also be tested for any errors and correcting them.

REFERENCE
www.newvision.co.ug

APPENDICES

FINANCIAL BUDGET

ITEM	AMOUNT(UGX)
PLANNING	500,000/=
REQUIREMENTS	500,000/=
DESIGN	1,000,000/=
DEVELOPMENT & IMPLEMENTATION	1,000,000/=
TESTING & MAINTENANCE	1,000,000/=
TOTAL	4,000,000/=

TIME BUDGET

PLANNING	1 MONTH
REQUIREMENTS	2 WEEKS
DESIGN	1 MONTH
TESTING & MAINTENANCE	2 WEEKS
DEVELOPMENT & IMPLEMENTATION	1 MONTH