**RESEARCH PROPOSAL TOWARDS THE DEVELOPMENT OF AN E-LEARNING MANAGEMENT SYSTEM.**

**Research problem statement.**

There is a lot of time taken and cost spent on travelling to and from school to attend face to face class lecture. Some students are scheduled to a three hours lecture a day for only three days a week. Some students have trouble approaching lecturers with questions on face to face, non-availability of universities in rural and urban areas, students may be expected to buy compulsory textbooks and attendance times can be inconvenient for some students. There is also high infrastructure cost of building. All this can be done efficiently on an e-learning system.

**Research question.**

* How effective will the implementation of an e-learning system management be of help.

**Objectives:**

**General Objective:**

-The implementation of an E-learning System Management will enhance the learning process in a quick, more civilized and versatile way in that, most activities such as recording of class attendance and registering of students etc. can be conducted efficiently and in a conducive technologized environment.

**Specific Objectives:**

1. To design and develop a system where new students can register their details and allow access to the system.
2. To develop a course enrollment module where students can enroll and access course enrolled learning materials and the moderator can add new lessons to the course.
3. To develop a database to store and manage all users details and learning materials such as video and pdf tutorials
4. To design and develop an admin module which manages all the users and the system operations.
5. To design and develop the news and announcements module where only moderators can post news and announcements.
6. To design and develop an examination module where moderators can add new exams and manage exams.
7. To develop an E-library where students and lectures can access books, articles, videos, magazines and notes.

**Research Questions**

1. How will users be able to securely access their account and be distinguished either as students or moderators when signing in?
2. How will students enroll for specific courses and access other learning materials on different courses?
3. How will students take lectures on videos and download notes on pdf.
4. How will examinations be generated for the courses chosen by student?
5. How will the exam results be generated and viewed by the student?

**Research Hypothesis**

1. Private access to a user account can be done by implementing sign in feature where user’s details are verified.
2. Implementing a course enrollment feature which allows student to add course and drop course.
3. This can be done by developing a feature that allows moderator to post meeting links and can post pdfs and be displayed on student’s course dashboard.

**Research study justification**

The above proposed system will eliminate the need of students and lecturers to travel on a daily basis. This will help them save money and time used on commuting. The proposed system will also enable organizations with insufficient funds to implement school buildings infrastructure hence organizations that are working on a tight budget can easily start a school that is running efficiently without spending money on any infrastructure. The system is also safe since all the users’ details are secured by the system with full accountability.

**Order of Activities**

1. Literature review
2. System design and development
3. Data collection
4. Data analysis
5. Presentation of Findings and Conclusions
6. Preparation of final documentation/report
7. ***Literature review***

This part will entail a detailed study of similar and related systems that are already deployed in the real world, and a comprehensive analogy of how they work, their advantages and their disadvantages. We intend to read books and articles and also google that are about other e-learning management systems whether large scale or small-scale institutions.

1. ***System design and development***

We intend to build a graphical design of how each important element of the system works, and translate that to code, in an actual programming language. This part will be a continuous practice throughout the research project.

1. ***Data collection***

We intend to gather quantitative data through use of questionnaires and interviews. We also going to use observation as we allow users of the system to interact with parts of the system as we watch, and draw feedback from their experience with the system

1. ***Data analysis***

After we have gathered data and user feedback, we are going to analyze the data using MS Word tables and MS Excel charts.

1. ***Presentation of Findings and Conclusions***

We are finally going to communicate my findings on what we have been able to design and develop, and also the user experience feedback data that we have received.

1. ***Preparation of final documentation/report***

This will be an ongoing practice throughout the system development as will be updating it every time we complete the initial stages above. We will publish it at the end and present to my supervisor and the panel.

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| **ACTIVITY** | **WEEK 1** | **WEEK 2** | **WEEK 3** | **WEEK 4** | **WEEK 5** | **WEEK 6** | **WEEK 7** | **WEEK 8** | **WEEK 9** | **WEEK 10** | **WEEK 11** |
| Literature review |  |  |  |  |  |  |  |  |  |  |  |
| System design and development |  |  |  |  |  |  |  |  |  |  |  |
| Data collection |  |  |  |  |  |  |  |  |  |  |  |
| Data analysis |  |  |  |  |  |  |  |  |  |  |  |
| Presentation of Findings and Conclusions |  |  |  |  |  |  |  |  |  |  |  |
| Preparation of final documentation/report and panel assessment |  |  |  |  |  |  |  |  |  |  |  |

**2. RESEARCH PROPOSAL ON TOURISM MANAGEMENT SYSTEM**

**Objectives.**

-To eliminate a lot of paper works in times of booking. (tourism).

**DISADVANTAGES.**

-Cost containment - Travelling costs from and to the booking offices won’t be frequent since one can easily book a tour at the comfort of their homes.

-Accountability – with the implementation of an online tourism management system, records are stored in a more advanced and secured platforms like databases for future references.

-Time management - -It’s way too easier to book at the comfort of your home rather than travelling for bookings.

-Time inconveniences - sometimes a client will have to travel to the offices