# **PROJECT TITLE: M.T.B. (MASTER TIMETABLE)**

# **GROUP MEMBERS**

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| --- | --- |
| NAME | REGISTRATION NUMBER |
| Beverlyne Chebet | C026-01-0727/2020 |
| Lonah Maigua | C026-01-2449/2020 |
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# **PROBLEM STATEMENT**

In our study time in Dedan Kimathi various group members have observed that there has been a collision of lectures from different departmental study programs; i.e. A certain department A year 2.1 wants to use a lecture room but currently another department/program (1.1) is currently using the lecture room. This causes conflict of venue due to their timelines. Time is usually wasted while locating a room in order to conduct an activity. The aim of this project is to simplify the process of locating empty rooms and reduce venue conflict between opposing departments.

# **PROBLEM JUSTIFICATION**

After a detailed study, we came up with a solution that will have the following benefits.

1. Both students and lecturers can easily view free lecture rooms.
2. Conflicting lectures can be pointed out and fixed.
3. Ongoing lectures can easily be identified.
4. Less time is wasted in locating a venue for a particular event.
5. The capacity of each lecture room will be clearly outlined in the website
6. Reduce unnecessary movement in wasting time looking for empty lecture rooms

# **OBJECTIVES**

## Primary objective

Display the current rooms that are empty and free so that they can be utilized for group meetings, personal studies and etcetera.

## Secondary objectives

1. Display the current expected location of the departmental students i.e., Biochemistry 2.1.
2. Identify the rooms that are least used and not fully utilized.
3. Display the capacity of each lecture room to avoid congestion.
4. Display the room features and resources e.g., the number of ethernet sockets and power sockets that are working properly.

# **FUNCTIONAL REQUIREMENTS**

1. Check available free rooms.
2. Determine the number of free rooms their carrying capacity and the usable facilities in each room.
3. Find the current location of a specific department i.e. Actuarial science 2.1 are most likely to be in room 33 at 10:00am
4. Select a particular room and view all its details

# **NON-FUNCTIONAL REQUIREMENTS**

1. Only the admin will be able to edit information in the website to ensure integrity, consistency and availability. Other users will only be able to view information on the website and not able to edit any other information.
2. The website is be able to run on all devices that are able to access the internet and have a web browser installed.
3. The website can run on any available web browser.
4. The system will be in plain American/British English.

# **UML DIAGRAMS**

## Use case Diagram



## Sequence diagram



## Activity Diagram



## FLOWCHART

