



MALAWI UNIVERSITY OF SCIENCE AND TECHNOLOGY

MALAWI INSTITUTE OF TECHNOLOGY

COMPUTER SYSTEMS AND INFORMATION TECHNOLOGY

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COURSE NAME: SYSTEM ANALYSIS AND DESIGN

COURSE CODE: SYAD-2200

ASSIGNMENT TITLE: FindMyHostel

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PROJECT PROPOSAL

1. PROJECT OVERVIEW

a. Project Name: FindMyHostel

b. Project description:

FindMyHostel is a web-based hostel booking system designed to simplify the process of finding and booking off campus hostels. It will also be connecting students to the respective hostel owners, allow hostel owners to list and manage their hostels and provide a tool for hostel comparison to students by providing a centralised web-based platform for searching and booking any of all the recommended (by MUST) off-campus hostels. FindMyHostel, connects students to their suitable hostels and connects hostels to their potential customers(students). It Offers the following features; hostel and rooms listing, hostel location, secure booking, pricing, reviews and rating.

c. FindMyHostel Users:

- i. MUST students looking for hostel off-campus hostels
- ii. Off-campus Hostel owners

d. Main Challenges FindMyHostel is addressing:

- iii. Lack of a centralised off-campus hostels information and updates system. Currently, there's no central hub for providing off-campus hostels information and updates, making it difficult and time consuming for students to find their suitable hostels.
- iv. Time consuming hostel finding process, the traditional way for looking for hostels, where students find them by physically searching for them consumes a lot of time and energy and it's a more inconvenient way.
- v. Lack of hostels comparison tools. Lack of a central off-campus hub makes it hard for students to compare the different hostels.
- vi. Lack of a central hostel's marketing and management platform. Hostel owners lack a central platform where they can market(advertise/list) and manage their hostel thereby limiting their potential customer reach and also no clear/written hostel description creates avoidable inconveniences like booking cancellation.

e. Proposed Solution:

Develop a web based centralised system that will be providing a centralised platform where students can find and book for any of the recommendable (by MUST) off-campus hostels and also allows the hostel owners to list and manage their hostels.

- f. Project Objectives:
 - i. Providing a central hub: allowing students to find and book their suitable hostels and allow hostel owners to list(market) and manage their hostels
 - ii. Providing an easy, user friendly, secure and faster way to find and book off-campus hostels
 - iii. Offering hostels comparison tool, filter feature allows the students to compare different hostels depending on pricing, distance from MUST campus, rating and reviews and amenities.

2. PROJECT SCOPE

- a. In-scope
 - i. User registration and authentication
 - ii. Dashboard for different users; students to view, search, book and cancel bookings and for the hostel owners to list, create, rename, update, delete, check free and occupied rooms, interact directly with the students who have made bookings and others on their hostels.
- b. Out of scope
 - i. Linking with google map or any other payment means
 - ii. It will, currently be developed specifically to be applicable for MUST off-campus hostels only, anything beyond this, is out of our scope.

3. DELIVERABLES

- a. Front end: responsive, user friendly and visually appealing client side, allowing students to search, book, cancel bookings and interact with the hostel owners.
- b. Back end: Database to manage listings, bookings and payment.
- c. Security: user Authentication
- d. Dashboard: hostel owners listing and managing their properties
- e. Search filters: Price, location, amenities, reviews and rating

4. SUCCESS CRITERIA

The following criteria will be used to determine our project success:

- a. Fully functional, User friendly, visually appealing
- b. Users and testing positive feedback
- c. Successful testing with 50 users

5. TECHNOLOGIES AND TOOLS

- a. Programming Languages: (Front End) HTML, CSS, JAVASCRIPT, (Back End) PHP
- b. Database: MySQL

- c. CASE Tools: VS Code(coding), Figma (Designing), Drawio (Designing), Google workspace (collaboration, storage, communication, file sharing)
- d. Communication tools: Google meet, Whats App, Telegram.

6. CONCLUSION

FindMyHostel aims to address the common challenges the MUST students face in searching for off-campus hostels and also aims at enhancing hostel management to the hostel owners by providing a centralised, easy to use, secure and user-friendly web-based system. Our system success will be determined by developing a fully functional, User friendly, visually appealing, Users and testing positive feedback and Successful testing with the first 50 users.