

MIZAN TEPI UNIVERSITY

SCHOOL OF COMPUTING AND INFORMATICS DEPARTMENT OF SOFTWARE ENGINEERING

PROJECT PROPOSAL

TITLE: **Web based Dormitory Management System For MTU.**

**Prepared by group One**

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SUBMITTION DATE: .

# ABSTRACTION

First and foremost, we express our heartfelt gratitude to the Almighty for granting us strength, guidance, and perseverance throughout this mini-project. Without divine support, our accomplishments would not have been possible.

We extend our deepest appreciation to **Mr. Kiros Shiferaw**, our teacher, for his unwavering support, guidance, and mentorship during the course of this work. His insights and expertise have been invaluable in shaping our understanding and progress, fostering our growth as learners.

To our dear classmates, we offer our sincere thanks for their collaboration, encouragement, and shared experiences that have enriched this journey. Your thoughtful peer reviews, insightful suggestions, and constructive feedback have been instrumental in the success of this project. The collective effort and exchange of ideas made this experience both rewarding and memorable.

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**ABBREVATIONS**

* **MTU** - Mizan Tepi University
* **ETB** - Ethiopian Birr (Currency)
* **UML** - Unified Modeling Language
* **OOSAD** - Object-Oriented System Analysis and Design
* **OOA** - Object-Oriented System Analysis
* **OOD** - Object-Oriented System Design
* **DBMS** - Database Management System
* **HTML** – Hyper Text Markup Language
* **PHP** - Hypertext Preprocessor
* **PC** - Personal Computer
* **CD** - Compact Disc
* **DB** - Database
* **SQL** - Structured Query Language
* **CSS** - Cascading Style Sheets (for web design)
* **XAMPP** - Cross-Platform, Apache, MySQL, PHP, and Perl (Local server environment)
* **UAT** - User Acceptance Testing
* **GUI** - Graphical User Interface

# INTRODUCTION

The Web Based **Dormitory Management System** for Mizan-Tepi University (MTU) is designed to modernize and streamline the management of dormitory operations. Currently, the dormitory system relies on manual paperwork, which is inefficient and prone to errors. This project aims to address these issues by implementing a user-friendly, web-based platform.

The proposed system will include features such as:

* Automated room allocation and tracking.
* Management of student information for current and previous residents.
* Tools for organizing and managing dormitory events.
* A searchable database to quickly retrieve information based on rooms, sessions, or student details.

By digitizing dormitory management, the project will improve efficiency, reduce administrative workload, and provide a better experience for students and the university’s dormitory administration. This initiative reflects Mizan-Tepi University's commitment to embracing digital solutions for enhanced service delivery.

## Mizan Tepi University Backgrounds

Mizan Tepi University is one of the universities in Ethiopia which is found in south western region.

It is located at Mizan Teferi, where the main campus is, and Tepi town 565kms and 578kms respectively at southwest of Addis Ababa, in the deep and unique natural and anthropogenic diversity.

The university is founded on 52 hectares of land to each of both campuses. The enormous potentialities and gifted natural resources of the southwest, those exist in around Mizan and Tepi towns offers among other things, a huge opportunity to the university to venture in to new territories of education, and research developments.

The university started teaching and learning in 2006 by sharing building for university administration office from MIZAN agriculture technical and vocational collage by admitting few regular students in collage of social science and humanities at MIZAN campus. By the time the university started its operation, there were only 215 students attending their first-degree classes. Among this number of students, 138 students had graduated colorfully in July 2008/9.

In the past eight years, the university has shown a significant change in increasing the student enrolment to 6709 in regular program and 3684 students in continuing and summer programs.

The attractiveness of the building that is commensurate with wonderful natural resources made the university paradise and due to this it highly comfortable for teaching and learning processes. As the university is located at the south western part of the country, where different nation, nationalities and people are living together peacefully by respecting each other, thus, realizing what we call peaceful co-existence.

### Vision

MTU aspires to be the leading higher educational institution being center of excellence in education and research an area of natural resources and cultural values utilization for development.

### Mission

MTU has a mission of supporting the development endeavors of the people by tacking the instance problems by utilizing natural resources and cultural values, through inculcating scientific knowledge and skills relevant to the country and assuring quality education.

core values pursuit of the truth and freedom of expression the truth; Institutional reputability based on successful execution of mission; competitiveness in scholarship and cooperation with other institutions; institutional autonomy with accountability; participatory governance and rule of law; Justice and fairness; a culture of fighting corruption quality and speedy service Delivery; economical use of resources and effective maintenance of assets; democracy and multiculturalism;

## BACKGROUND of the project

At Mizan-Tepi University (MTU), the dormitory management process has traditionally relied on manual systems, such as physical records and paperwork. This approach often leads to inefficiencies, delays, and challenges in managing student accommodations, payments, and dormitory programs.

With the increasing number of students and the growing demand for better administrative efficiency, the need for a digital solution has become evident. Transitioning from manual operations to an online, web-based system will provide MTU with a more streamlined and organized approach to managing dormitory-related tasks.

The development of the Dormitory Management System is rooted in the university's commitment to modernization and enhancing student services. By digitizing processes such as room allocation, payment tracking, and student information management, the system aims to create a more effective and user-friendly dormitory experience for both students and the administration.

This project is part of a broader effort to embrace technology and improve operational efficiency across the university, ensuring alignment with global trends in higher education management.

The development team aims to refine and enhance the system continuously, ensuring it meets the evolving needs of MTU's administration and students. The goal is to deliver a robust, scalable, and intuitive platform that simplifies dormitory management while supporting the university's vision for growth and innovation.

## 1TEAM composition and communication plan

To accomplish this project, we are going to grouped to take different tasks to simplify the loads.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Project Title | **Web based Dormitory Management System For MTU.** | | | | |
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| Date |  | | | | |
| Advisor | Mr. Kiros | | | | |

Table 1:1 Team Composition

## task and schedule

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Phase** | **Method** | **Start Date** | **Stop Date** | **Compilation Time (Hr/Day)** |
| Data Gathering | Interview |  |  |  |
| Observation |  |  |  |
| Document Analysis |  |  |  |
| Data Analysis | Analysis |  |  |  |
| Documentation And Design |  |  |  |  |
| Implementation |  |  |  |  |
| Tasting | White Tasting |  |  |  |
| Black Tasting |  |  |  |

Table 1:2 Task and Schedule

## statement of the problem

Mizan-Tepi University (MTU) faces several operational challenges in its current dormitory management system, which relies heavily on manual processes and physical paperwork. These challenges include:

1. **Inefficient Record Management**
   * Storing and retrieving student information is time-consuming and prone to errors, leading to delays in decision-making and administrative processes. Additionally, since paper-based records are used, there is a risk of losing important information or misplacing documents, which exacerbates these inefficiencies.
2. **Room Allocation Issues**
   * The manual room assignment process frequently results in conflicts, improper allocations, and difficulty in tracking room availability, leading to dissatisfaction among students.
3. **Employee (Proctor) Management Issues**
   * Managing the schedules and responsibilities of dormitory proctors is cumbersome, with challenges in ensuring that proctors are assigned correctly to shifts and dorms.
4. **Inaccurate Information on Room Status**
   * The current system struggles to provide real-time information about the status of blocks and individual rooms, leading to confusion and mismanagement.
5. **Tracking Room Occupancy and Proctor Assignments**
   * The system does not provide accurate, up-to-date information about which students are currently residing in rooms and who occupied them on previous days. Additionally, the proctor assignment schedule is not efficiently managed or tracked.

The reliance on paper records further exacerbates these problems, as critical information may be lost, damaged, or improperly stored, making it even harder to manage dormitory operations effectively.

These challenges highlight the urgent need for a comprehensive, digital Dormitory Management System that can streamline operations, reduce errors, improve service delivery, and enhance the overall dormitory experience for both students and administrators at MTU.

## objective of the project

### 6.1 general objective

To develop Web based Dormitory Management System For MTU.

### specific objective

To achieve the overarching goal, the following specific objectives have been identified:

1. **Review and Analyze Current Processes**
   * Examine and study the existing dormitory management activities at MTU to understand current workflows and identify inefficiencies.
2. **Design a User-Friendly Interface**
   * Develop an intuitive and accessible interface that caters to the needs of all users, including administrators and residents.
3. **Develop an Efficient Database System**
   * Design and implement a database optimized for fast and accurate data retrieval, ensuring efficient management of dormitory information.
4. **Create a Robust and Feasible System**
   * Build a reliable and scalable system capable of handling current and future requirements seamlessly.
5. **Data Collection and Requirement Gathering**
   * Gather all necessary data and identify functional and non-functional requirements to ensure the system meets user needs.
6. **System Design, Implementation, and Testing**
   * Design, implement, and thoroughly test the system to ensure its functionality, usability, and performance.
7. **Address Current System Challenges**
   * Propose and implement solutions to overcome the limitations and problems of the existing dormitory management system.
8. **Provide Recommendations and Guidelines**
   * Offer clear recommendations on the system's implementation and provide guidelines to facilitate its adoption and optimal usage.

## scope of the project

The proposed **Dormitory Management System** for Mizan-Tepi University (MTU) is focuses on the development of an online **Dormitory Management System** that will automate and streamline the management of student dormitories at **Mizan-Tepi University (MTU)**. The project scope is constrained by the available time and resources, so it addresses the following key aspects:

### Platform Features and Functionality

* **Room Allocation**: Automates the process of assigning rooms to students based on availability and preferences.
* **Complaint Management**: Provides a platform for students to report issues related to dormitory facilities and track their resolution status.
* **Administrative Dashboard**: An interface for administrators to manage student registrations, room assignments, payments, and track issues reported by students.
* **Real-time Notifications**: Notifies students and administrators about important updates such as payment reminders, room assignments, or maintenance issues.

### Geographical Coverage

* **Primary Coverage**: This System will serve **Mizan-Tepi University Specially Teppi campus** and its dormitories.
* **Potential Expansion**: There is potential for the system to expand to include dormitories at other campuses within the university or to be adopted by other universities in the future.

### Stakeholder Engagement

* The Web-Based Dormitory Management System will be utilized by the following key stakeholders:
* **Students**: Students will use the system to register for rooms and report any issues related to their accommodations.
* **Dormitory Officers**: Dormitory officers will leverage the system to manage room allocations, address student complaints, and ensure smooth dormitory operations.
* **University Administrators**: University administrators will monitor and oversee the overall management of dormitory services, ensuring compliance and efficiency in operations.

## Feasibility study of the proposed system

Feasibility is the measure of how scheduled, beneficial or practical the development of the system will be for the organization. To start with our project first, we have to clearly analyses the feasibility of the system that we are going to do. So, we have looked at some feasibility:

### Economic Feasibility

The **Web-Based Dormitory Management System** for **Mizan Teppi University (MTU)** is designed to be economically feasible and provides significant benefits that outweigh its costs. By transitioning from a manual system to a computerized platform, the university can reduce administrative costs, improve efficiency, and enhance service delivery. The project utilizes cost-effective resources and open-source technologies to ensure that the project remains within budget while delivering value to the stakeholders.

* **Cost Analysis**

The project has been designed to minimize costs and maximize value for the university:

* **Development Costs:** Open-source technologies (e.g., PHP, MySQL) will minimize software licensing fees.
* **Hosting and Maintenance:** Hosting will incur an initial cost of **5,000 ETB**. Ongoing maintenance costs will be included in the university's budget.
* **Training Costs:** Training for staff and students will leverage existing resources, minimizing additional expenses.
* **Budget Plan**

**A. Development Costs**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item** | **Quantity** | **Unit Cost (ETB)** | **Total Cost (ETB)** |
| Web Hosting (1 year) | 1 | 5,000 | 5,000 |
| Software Tools | - | - | 50,000 |
| Development Team Stipend | 4 members | 30,000/month | 120,000 |
| **Subtotal** |  |  | **175,000** |

**B. Training and Workshops**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item** | **Quantity** | **Unit Cost (ETB)** | **Total Cost (ETB)** |
| Training Materials | ---- | ---- | 2,500 |
| Workshop Sessions (2) | 2 | 2,000/session | 4,000 |
| **Subtotal** |  |  | **6,500** |

**C. Equipment and Infrastructure**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item** | **Quantity** | **Unit Cost (ETB)** | **Total Cost (ETB)** |
| Laptops for Developers | 4 | 35,000 | 140,000 |
| Internet Subscription (6 months) | 1 | 10,000 | 10,000 |
| Flash Drives (16GB) | 2 | 500 | 1,000 |
| **Subtotal** |  |  | **151,000** |

**D. Miscellaneous**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item** | **Quantity** | **Unit Cost (ETB)** | **Total Cost (ETB)** |
| Printing and Documentation | 100 pages | 5 | 500 |
| Contingency | 1 | 10% of total cost | 13,550 |
| **Subtotal** |  |  | **14,050** |

**E. Total Budget**

|  |  |
| --- | --- |
| **Category** | **Total Cost (ETB)** |
| Development Costs | 175,000 |
| Training and Workshops | 6,500 |
| Equipment and Infrastructure | 151,000 |
| Miscellaneous | 14,050 |
| **Grand Total** | **270,000** |

Table 1.3: Economic Feasibility

The **Web-Based Dormitory Management System** is economically feasible with a total budget of **270,000 ETB**. By utilizing open-source technologies, reducing team size, and limiting additional resources, the project remains financially manageable. The system will provide significant long-term cost savings by improving efficiency and reducing the costs associated with the current manual management system. This solution is both cost-effective and sustainable for **MTU**.

## Technical Feasibility

**Technical feasibility** evaluates whether the proposed **Web-Based Dormitory Management System** for **Mizan Teppi University (MTU)** can be implemented using the available technology, infrastructure, and expertise.

### System Requirements:

#### Hardware Requirements:

* + **Server:** High-performance servers for hosting the web application and database.
  + **Client Devices:** Computers, laptops, and mobile devices for accessing the system.
  + **Network Infrastructure:** Reliable internet connectivity and local network setup to ensure seamless access.

#### Software Requirements:

* + **Operating System:** Compatible with Windows, Linux, or cloud-based hosting platforms.
  + **Database Management System (DBMS):** MySQL, PostgreSQL, or Oracle for efficient data storage and retrieval.
  + **Programming Languages:** HTML, CSS, JavaScript, PHP, or Python for web development.
  + **Frameworks:** Laravel, Django, or similar frameworks to support rapid development and scalability.
  + **Web Server:** Apache or Nginx for hosting the application.

### Technical Expertise:

* **Our team** possesses the required technical expertise to develop, deploy, and maintain the system effectively.
* Training sessions will be provided to administrators and users to ensure smooth adoption and operation.
* Additional support can be provided by external consultants or developers for advanced optimization if required.

### Scalability and Integration:

* The system is designed to be **scalable**, allowing future expansion to accommodate more users and dormitory facilities.
* It supports **modular architecture**, making it easy to integrate with MTU’s existing systems, such as student registration platforms and payment systems.

### Security and Data Protection:

* Implements **user authentication** and **role-based access control** to secure sensitive data.
* Ensures **data encryption** during transmission and storage to comply with Ethiopian data privacy regulations.
* Regular **backups** and disaster recovery mechanisms will be in place to prevent data loss.

### Reliability and Performance:

* The proposed system is optimized for **high performance**, ensuring quick data retrieval and processing.
* Supports **cross-platform accessibility**, allowing users to access the system from various devices, including desktops, tablets, and smartphones.

## Operational Feasibility

Operational feasibility evaluates whether the proposed **Web-Based Dormitory Management System** for **Mizan Teppi University (MTU)** can be effectively implemented and utilized within the institution's existing environment.

### Compatibility with Existing Systems:

* The proposed system can seamlessly integrate with MTU’s current IT infrastructure, ensuring compatibility with existing hardware and software resources.
* It supports scalable architecture, allowing future enhancements and upgrades without requiring significant modifications.

### Scalability and Flexibility:

* The system is designed to handle current dormitory management needs and is scalable to accommodate future growth in student populations and dormitory facilities.
* It supports multi-user access, enabling multiple departments and stakeholders to collaborate efficiently.

### Support and Maintenance:

* A dedicated support team will be available to address technical issues and system updates.
* Regular maintenance schedules will be implemented to ensure smooth operations and system reliability.

### Efficiency and Performance Improvements:

* The system will automate manual tasks, reducing processing times and errors associated with paper-based systems.
* It will improve communication between administrators and students, ensuring prompt responses to inquiries and requests.

## Schedule Feasibility

Schedule feasibility assesses whether the project can be completed within the proposed timeline.

### Timeline Analysis:

The project is deemed schedule-feasible and can be delivered on time with proper planning and execution. The proposed system can be implemented within the following time frame, as outlined below. The project manager will be responsible for monitoring and controlling the development process to ensure adherence to the schedule.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| No | Tasks | 20th Nov – 3rd Oct | 4th Oct – 20th Oct | 21st Oct – 3rd Jan | 4th Jan – 15th Feb | 16th Feb – 30th Feb | 1st Mar – 15th Mar |
| 1 | Project Proposal | ✔ |  |  |  |  |  |
| 2 | Requirement Analysis |  | ✔ |  |  |  |  |
| 3 | Design |  |  | ✔ |  |  |  |
| 4 | Coding & Implementation |  |  |  | ✔ |  |  |
| 5 | Installation Testing |  |  |  |  | ✔ |  |
| 6 | Project Closure |  |  |  |  |  | ✔ |

Table 1.4: Schedule Feasibility

### Resource Availability:

**Human Resources:** We have sufficient skilled personnel to ensure the project progresses according to schedule.

**Technical Resources:** Adequate technical infrastructure is available to support the development and implementation of the system.

**Phased Approach:** The project follows a phased implementation plan, which ensures that workloads are manageable for the project team and resources are efficiently utilized.

This structured approach ensures that the project remains on track and is completed within the proposed timeframe.

## SIGNIFICANCE of the project

The **Web-Based Dormitory Management System** for **Mizan Teppi University (MTU)** aims to streamline the management of dormitory operations, providing an efficient, user-friendly solution for both administrators and students. This system will simplify processes such as room assignments, registration, billing, and communication, improving the overall dormitory management experience.

### Target Beneficiaries of the System

|  |  |
| --- | --- |
| **Target Group** | **Benefit** |
| **Students** | Simplified dormitory registration, room assignments, and better communication with dormitory administration. |
| **Dormitory Officers** | Improved efficiency in managing dormitory operations, reduced paperwork, and faster data retrieval. |

Table 1.5: Target Beneficiaries of the System

### Tangible Benefits and Intangible Benefits Of the System.

* **Tangible Benefits:**
* **Operational Efficiency**.
* **Time Savings**.
* **Reduce cost for Paper**.
* **Intangible Benefits:**
* **Improved Communication**: Enhances communication between students and dormitory officers for quicker issue resolution.
* **Transparency**: Provides students and staff with real-time access to dormitory-related information, promoting transparency in room assignments and billing.
* **Convenience**: Students can easily register, request maintenance, or make payments online, improving their overall experience.

## METHODOLOGY

A methodology defines the set of methods, processes, and practices used to deliver a project. For the development of this Web-based Dormitory Management System, **Prototyping** was chosen to clarify requirements and reuse software components, accelerating development timelines. This section outlines the data collection methods, sources, and how the collected data is analyzed.

The system development methodology is critical for organizing, planning, and controlling the project’s flow. Various methodologies are applicable depending on technical, organizational, and project team considerations. For this project, the **Object-Oriented Software Development (OOSD)** methodology was chosen.

* **Reasons for Choosing Object-Oriented Methodology:**
* **Modularity**: Objects are self-contained and can be easily modified, replaced, or reused, making the system adaptable.
* **Encapsulation**: Objects encapsulate both data and functionality, closely modeling real-world entities.
* **Reusability**: Promotes reusability not just of modules but also of complete system designs.
* **Maintainability**: System components can be modified or expanded without affecting others.

### Data Collection Methodology

Data collection is crucial for understanding the existing dormitory system and identifying system requirements. The following methods were employed:

* **Interviews**: We interviewed the internship advisor to understand the existing system and its limitations. Specific questions were prepared to extract necessary information.
* **Observation**: Team members observed daily dormitory operations, which helped gain insight into the system's challenges and provided context for system improvement.
* **Document Analysis**: Existing forms, documents, and regulations were reviewed to understand the current practices and organizational structure, as well as the dormitory system’s rules and constraints.

### Data Analysis Methodology

The project team analyzed the gathered information using **Unified Modeling Language (UML)** diagrams, such as **Use Case**, **Activity**, and **Class Diagrams**. The reasons for using UML are:

* UML is widely used to visualize and model object-oriented designs.
* It simplifies the process of converting designs into popular programming languages.
* UML diagrams are easy to decode, facilitating better communication between team members and stakeholders.

### System Analysis and Design Methodology

For system design and analysis, the project adopted **Object-Oriented System Analysis and Design (OOSAD)** due to the following advantages:

* **Encapsulation**: Ensures system components are independent, improving flexibility and maintainability.
* **Reduced Maintenance**: The system's modularity reduces long-term maintenance costs by enabling easier updates and reusability of components.
* **Real-World Modeling**: OOSAD provides a natural way of modeling real-world objects (like rooms, students, and payments), improving the system’s relevance and accuracy.
* **Improved Reliability and Flexibility**: New objects or behaviors can be created and integrated without impacting the overall system, ensuring better flexibility.
* **High Code Reusability**: New objects inherit attributes and behaviors from existing ones, making the system scalable and adaptable to future needs.
* **Ease of Understanding**: The object-oriented nature of the system makes it intuitive, allowing non-technical stakeholders to understand the system design and functionality easily.
* **Phases of Object-Oriented System Analysis and Design (OOAD):**

### Object-Oriented Analysis (OOA):

* + **Objective**: Identify system requirements, business objects, and relationships.
  + **Outcome**: Creation of a use-case model that defines the interaction between users and the system, helping us understand user needs.
  + **Focus**: Identifying classes and their relationships in the problem domain.

### Object-Oriented Design (OOD):

* + **Objective**: Design and refine classes, attributes, methods, and data structures identified during the analysis phase.
  + **Outcome**: Development of the user interface and data access layers, including definitions of classes that support the system's functions.
  + **Focus**: Finalizing class structures and updating the object model to reflect design improvements.

The results of OOAD activities include **analysis models** (from OOA) and **design models** (from OOD). These models will be continuously refined, driven by risk analysis and business value considerations, ensuring the system meets evolving requirements and objectives.

### IMPLEMENTATION ****Methodology****

The following hardware tools are essential for the development and implementation of the **Web-Based Dormitory Management System** for **Mizan Teppi University (MTU)**:

### ****Hardware Tools Required****

|  |  |
| --- | --- |
| **Tools** | **Activities** |
| **Personal Computer (PC)** | Used for performing almost all tasks, including coding, design, and documentation. |
| **Flash Disk** | Required for transferring and storing data between computers and for backup. |
| **Disk (CD)** | Used for storing relevant data and for creating backups. |
| **Paper** | Used for note-taking, drafting questions, and documenting resources. |

**Table 1.6: Hardware Tools Required**

The following software tools will be used to develop and implement the system:

### ****Software Tools Required****

|  |  |
| --- | --- |
| **Tools** | **Activities** |
| **Visual Studio Code** | Used for coding in PHP and creating the website's back-end. |
| **CSS** | For designing an attractive layout and styling the front-end. |
| **PHP** | Back-end programming language for server-side coding and managing logic. |
| **HTML** | For client-side coding to create the structure of the web pages. |
| **MySQL** | Database management system for storing and managing user data and other information. |
| **XAMPP Server** | Provides a local server environment to store and manage the web application and its data. |
| **Mozilla Firefox** | Web browser used for testing and running the application. |
| **MS Office Word 2016** | Used for creating documentation, reports, and other project-related content. |
| **MS Office PowerPoint 2016** | Used for creating presentation slides for meetings and project updates. |
| **Edrawmax** | Software used for designing UML diagrams and system architecture. |

**Table 1.7: Software Tools Required**

This setup includes the necessary hardware and software tools that will ensure the development and successful implementation of the **Web-Based Dormitory Management System**. The tools were selected for their efficiency, ease of use, and compatibility with the project requirements.

## limitation of the project

This defines what the proposed system is not going to perform or what is not including in the proposed system according to time and resources.

The limitations of our software product are listed below

* Limited internet access in rural areas may restrict platform usage.
* It does not work offline or without Ethernet connection.
* Resistance to change among some stakeholders could hinder adoption.
* Budget constraints may limit the scope of initial features.
* The proposed system cannot access with local language.
* Only literate persons can use this system.