Business Requirement Document(BRD)
For
Hostel Management System

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Key points : -

- Project Overview
- Business Requirement
- Project Deliverables
- Scope and limitations
- Assumptions
- Terms

- **Introduction**

  The Hostel Management System aims to enhance the efficiency and effectiveness of managing hostel operations. This system will automate room allocation, track room availability, facilitate room transfers, handle complaints and feedback, manage visitor logs and passes, and maintain students' medical details. By digitizing these processes, the system will ensure better resource management, improve student satisfaction, and support administrative staff in their day-to-day operations.

1. Project Overview : -

  - Purpose : This project (Application) is to design and develop a Hostel Management System that enhances the operations and work efficiency around the hostel and removes the difficulties for Staffs and Students.

  - Objectives :

- To provide a user-friendly interface for hostel staff and residents.
- To automate routine tasks to reduce Human errors.
- To maintain accurate Records regarding attendance,new entries etc
- To generate insightful reports for better decision-making.

- Project Scope:
    - Student Registration And Management
    - Room Allocation
    - Student Attendance management
    - Fee management

- Stakeholders :
    - Administrations
    - Staffs
    - Project Managers
    - IT Team
    - Students

2. Business Requirements :
- In the terms of Business Requirements we need to create the exact viewpoint for two requirements.

    - Functional Requirements
    - Non-Functional requirements

- Functional Requirements / Use cases :
    - Student Registration and Management :

        - Students can be registered.

- ■ Rooms can be Allocated.

- ■ Records updation.

- Room Allocation Management :
  - Rooms can be allocated.

  - Allocated rooms can be changed.

- Automated Attendance System :
  - Students can put their attendance by the help of this Application.

  - Attendance Data can be managed by Day wise and month wise.

- Fee Management :

  - Generate Payment invoices.

  - Identify the Payment Status.

  - Generate Notifications.

- Inventory management System:
  - Add the Entries of Inventory items.

  - Manage the records of Inventory items.

- Medical Record Maintenance :
  - Health Monitoring

- Medical History Tracking

- Non - Functional Requirements :
  - User Friendly :
    - It should be efficient for User Interaction and navigation.

  - Efficient Performance :
    - This should be capable of handling the high loads of requests.

  - Security :
    - This should be highly secured and its data should be in encrypted form.

  - Scalability :
    - This Application Should be Scalable For future Scaling purposes.

3. Project Deliverables :
   - Project Plan.
   - Functional Specifications.

- Completed hostel Management System.
- Test plans Document
- Deployment Requirements.

4. In Scope :

- Student Registration
- Room Allocation
- Fee Management
- Inventory System management
- Medical Tracking
- Staff Management

5. Out of Scope :

- Academic Management
- Non Hostel Activity
- Cafeteria Food Services

6. Scope and Limitations :

- Scope : It will fulfill all the standard requirements for Hostel Management Systems.
- Limitation :
    - It can't be connected with any kind external system regarding I/O operations in the initial phase.

7.Assumptions :

- It will make the operations of Hostel very efficient.
- Necessary Infrastructure based on software also provided.
- It will take timely input from the Stakeholders for its future betterments.
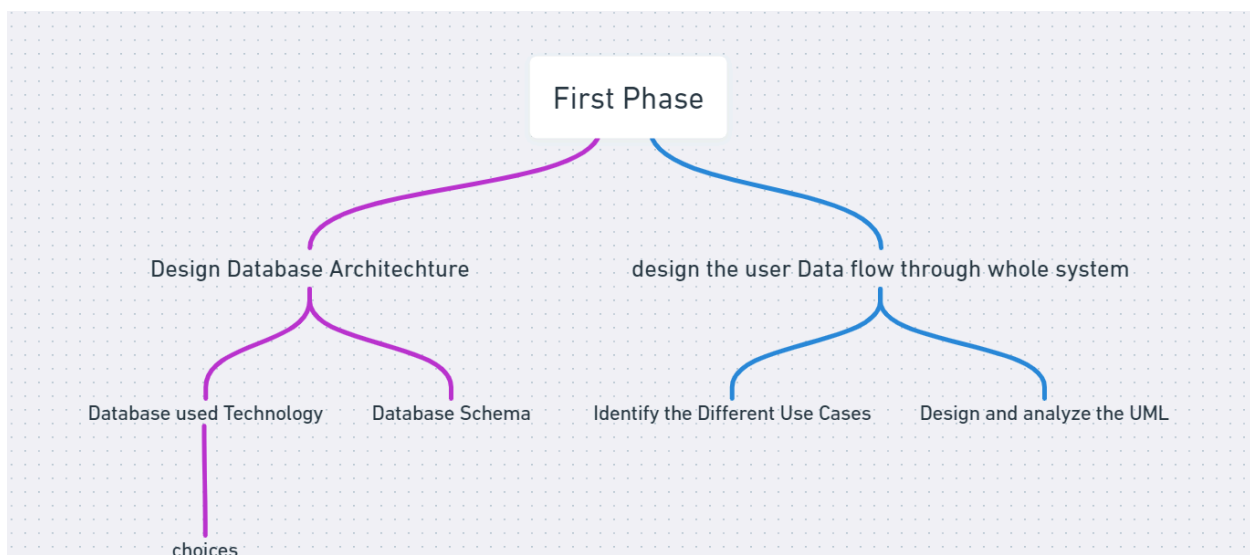
6. Glossary & Terms :

- HMS : Hostel management System
- Residents : An individual Entity which is placed in a Hostel.
- Administration : A person responsible for managing Hostel operations.
- Technical Support Team : A technical team responsible for providing support regarding Technical issues.
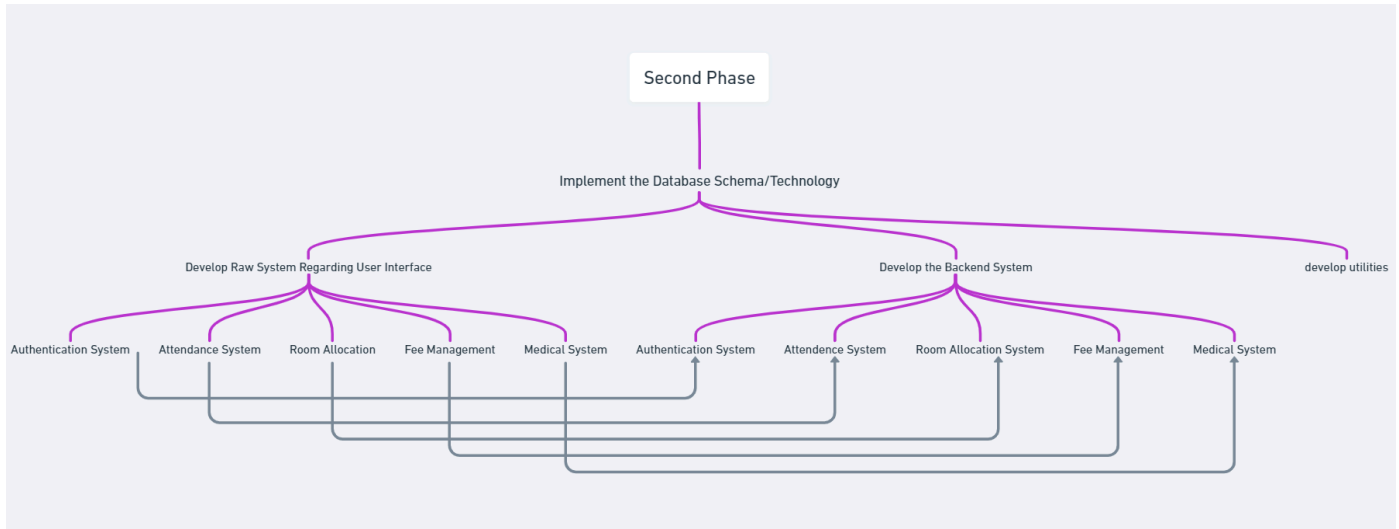
WorkFlow Of The Project

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We can divide the Whole workflow of this project in 5 phases.
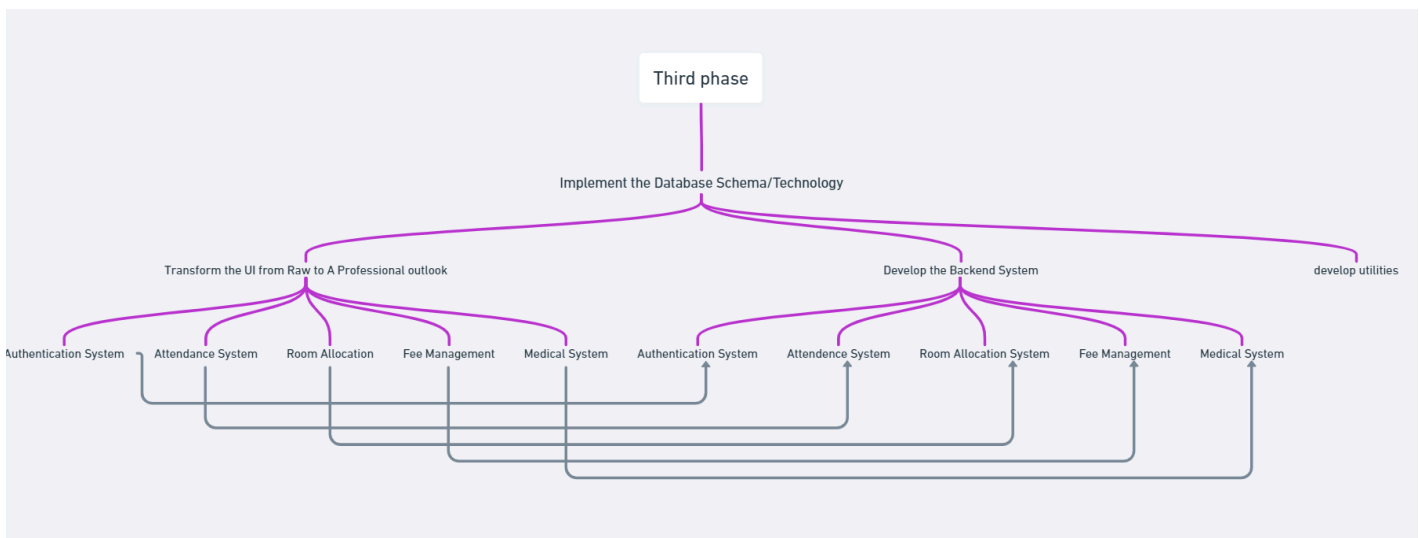
1.Gather all the Business requirements.

2. Planning for the workflow and assigning the modules regarding expertise.

Develop the Backend & Integrate with RAW UI :


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                           Second Phase

                  Implement the Database Schema/Technology

   Develop Raw System Regarding User Interface      Develop the Backend System      develop utilities

Authentication System  Attendance System  Room Allocation  Fee Management  Medical System   Authentication System  Attendence System  Room Allocation System  Fee Management  Medical System
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Transform THe RAW UI into Professional


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                           Third phase

                  Implement the Database Schema/Technology

   Transform the UI from Raw to A Professional outlook      Develop the Backend System      develop utilities

Authentication System  Attendance System  Room Allocation  Fee Management  Medical System   Authentication System  Attendence System  Room Allocation System  Fee Management  Medical System
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Performance testing Module Wise

Fourth Phase

Testing

Inventory System Managment | Room allocation | Student Regiistration | Fee Management | Medical Analysis

Success | Not | Success | Not | Success | Not | Same | Same

Ready For Deploy | Resolving The Bugs | Ready For Deploy | Resolving the bugs | Ready For Deploy | Resolving The Bugs

Going For Testing | Going For testing | Going For testing
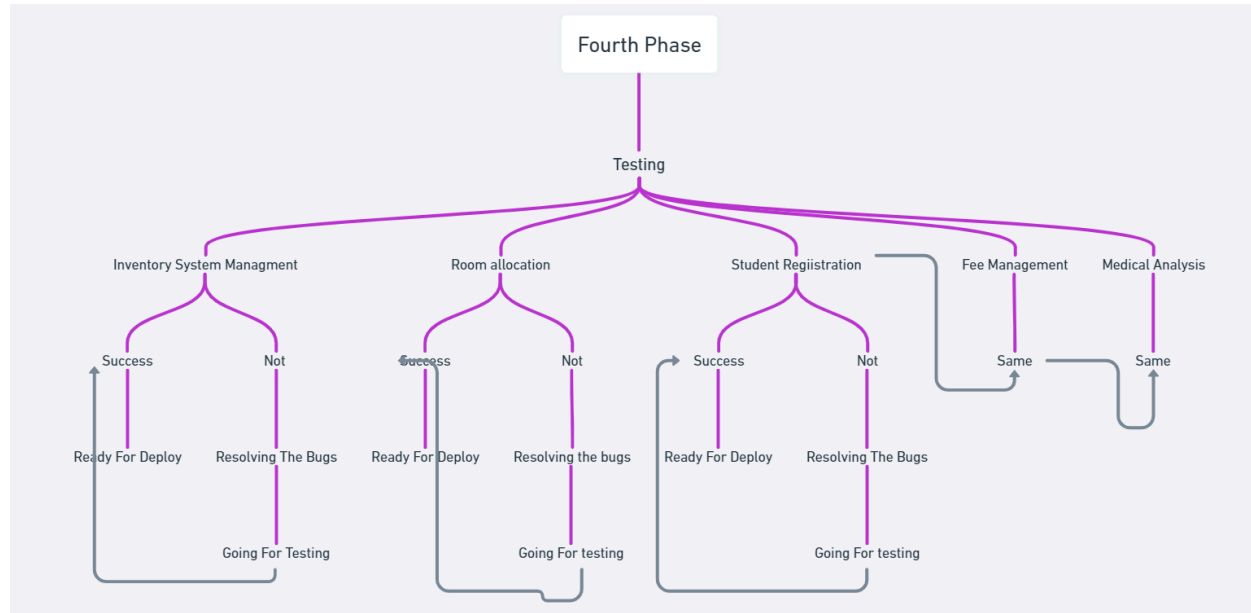
Integrate All THe modules and Deploy :