SOFTWARE REQUIREMENT SPECIFICATION (SRS) DOCUMENT

PLACEMENT TRAINING ON FULL STACK DEVELOPMENT	
STUDENT NAME :	SHYAM RAJ D
SEAT NUMBER :	337
PROJECT ID :	18
PROJECT TITLE :	Campus Maintenance - Essential Staff work status Portal

TECHNICAL COMPONENTS :

Components	Tech Stack
Frontend	HTML, CSS, Bootstrap
Backend	Django, Python
Database	DB SQLite , PostgreSQL
API'S	RESTful API's

IMPLEMENTATION TIMELINE :

Phase	Deadline	Status	Notes
Stage 1	05/05/2024	In progress	Planning and Requirement Gathering
Stage 2			Desing and Prototyping
Stage 3			Database Design
Stage 4			Backend Implementation
Stage 5			Testing and Implementation

TABLE ON CONTENT

1. PROBLEM STATEMENT :

The campus maintenance operations face challenges including inefficient staff management, communication and coordination gaps, difficulty in tracking work progress, limited resource allocation, and ensuring effective campus maintenance. These challenges hinder productivity and effective management of maintenance activities, creating the need for a holistic solution to streamline processes and enhance campus maintenance operations.

2. KEY PROBLEMS :

1. Inefficient Staff Management Processes: Current staff allocation and task assignment methods are inefficient, resulting in suboptimal resource utilization and productivity.

2. Lack of Communication and Coordination: Communication gaps between supervisors, employees, and administrators hinder effective coordination and collaboration in campus maintenance activities.

3. Difficulty in Tracking Work Progress: There is a lack of visibility into the progress of maintenance tasks, making it challenging to monitor and ensure timely completion.

4. Limited Resources Allocation: The allocation of resources, including staff and equipment, is not optimized, leading to inefficiencies and delays in maintenance activities.

3. STAKEHOLDERS' OBJECTIVES :

1. **Supervisor's Access to Detailed Staff Information:** Supervisors necessitate comprehensive insights into staff assignments and availability to proficiently manage campus maintenance tasks.
2. **Seamless Data Input for Various Fields:** Stakeholders advocate for a system facilitating easy and accurate data input across diverse fields, ensuring efficiency and precision in task management.
3. **Daily Work Logging and Reporting:** The capability to log daily work activities and generate reports holds pivotal importance for monitoring progress, assessing performance, and ensuring accountability in campus maintenance operations.

4. PURPOSE:

The purpose of the Campus Maintenance Enhancement project , named as WorkView will address inefficient staff management processes, lack of communication and coordination, difficulty in tracking work progress, limited resources allocation, and ensuring effective campus maintenance. This will be achieved by leveraging technology and implementing a comprehensive system to streamline processes, improve communication and coordination, and ensure efficient resource allocation, ultimately enhancing campus maintenance operations

5. PROJECT SCOPE:

The project aims to develop a Campus Maintenance - Essential Staff Work Status Portal to streamline the management of essential staff and their work statuses within the campus environment. The system will offer a comprehensive solution for tracking essential staff assignments, work details, and statuses, enhancing efficiency in campus maintenance operations.

KEY FEATURES:

1. **Real-time Tracking:** The portal will provide real-time updates on essential staff assignments and their current work statuses, allowing administrators to monitor activities efficiently.
2. **Task Management:** Users can create and assign tasks to essential staff members, specifying details such as the nature and location of the work.
3. **Staff Assignment:** The system will facilitate the assignment of essential staff to specific tasks, ensuring optimal utilization of resources.
4. **Work Status Updates:** Essential staff members can update their work statuses, including the duration of the work and any remarks related to the task.
5. **User-friendly Interface:** The portal will feature an intuitive interface for easy navigation and seamless interaction, catering to users with varying levels of technical proficiency.

6. USER CLASSES AND CHARACTERISTICS:

The user stories for the Campus Management Portal are as follows:

1. Administrators: "As an administrator, I need to oversee staff activities, manage campus operations, and generate insightful reports for decision-making."

2. Staff: "As a staff member, I am responsible for daily maintenance activities, task assignments, and tracking progress within the campus."

3. Guest Users: "As a guest user, I need access to limited public information and basic functionalities of the portal for specific purposes."

7. USER PERSONAS:

1. **Supervisors:**
    - **Characteristics:**
        - Basic English Proficiency: Supervisors should possess basic English reading skills to navigate the app and understand task instructions.
        - Previous Experience: Experience with similar management systems is required, enabling supervisors to effectively oversee and coordinate campus maintenance activities.
        - Technical Proficiency: While not mandatory, a basic understanding of technology and software interfaces is beneficial for supervisors to utilize the app's features efficiently.
2. **Employees:**
    - **Characteristics:**
        - Basic English Proficiency: Employees should be able to comprehend task assignments and instructions presented in English within the app.
        - Previous Experience: Similar to supervisors, prior exposure to maintenance management systems enhances employees' ability to navigate and utilize the app effectively.
        - Technical Proficiency: While not mandatory, having some technical knowledge aids employees in assigning tasks, marking attendance, and interacting with the app's interface seamlessly.

8.USER STORIES:

The user stories for the Campus Management Portal are as follows:

1. Administrators: "As an administrator, I need to oversee staff activities, manage campus operations, and generate insightful reports for decision-making."

2. Staff: "As a staff member, I am responsible for daily maintenance activities, task assignments, and tracking progress within the campus."

3. Guest Users: "As a guest user, I need access to limited public information and basic functionalities of the portal for specific purposes."

9. DEPENDENCIES:

- **External APIs:** Integration with Google OAuth for user authentication.
- **Data Sources:** Dependence on accurate and up-to-date data for system accuracy.
- **Development Tools:** Reliance on specific tools and platforms for efficient development.
- **Regulatory Compliance:** Dependence on compliance with relevant regulations and standards..

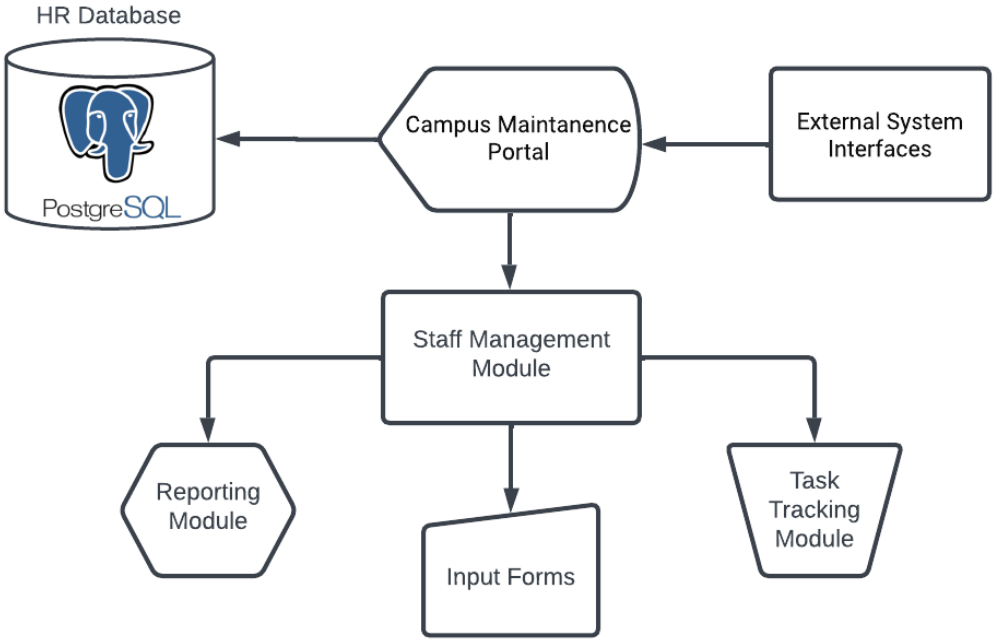
10. PRODUCT FEATURES:

• **Staff Management:** The portal allows the maintenance of detailed personnel records, facilitating the assignment of tasks based on staff availability and skills. It also enables attendance monitoring, staff skill profiling, and a notification system for task updates.

• **Task Tracking:** Real-time task allocation and tracking, along with staff status updates, facilitate efficient task prioritization, location tracking, and deadline management with timely reminders.

• **Reporting and Analysis:** The portal generates daily work activity reports, provides staff performance metrics, and offers efficiency and trend analysis for informed decision-making. Customizable dashboards ensure effective monitoring.

11. APPLICATION ARCHITECTURE:



12. WORKFLOW FOR THE PROJECT:

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