Week 4 | App Dev

Objective

To streamline task assignment, deadline tracking, and resource management for the ISA-VESIT Council by developing a dedicated app. The app will enable structured workflows and efficient communication, replacing the limitations of WhatsApp for council operations.

Core Features

1. **Task Assignment and Management**

   - Enable users to create, assign, and track tasks.

   - Notify assignees about their responsibilities.

2. **Role-Based Access Control**

   - Provide team members with access to specific tasks and resources based on their roles.

3. **Centralized Resource Repository**

   - Store and manage shared links, documents, and resources in an organized manner to ensure accessibility.

4. **Task Status Updates**

   - Allow senior members to update the status of tasks (e.g., Approved, Pending, Not Approved) to ensure clarity and accountability.

Team Responsibilities

1. Database Integration: Yash Patil

- Design and implement the database schema using **Supabase**.

- Ensure efficient storage and retrieval of tasks, resources, and user data.

2. Role-Based Access: Paayal

- Develop and implement role-based access mechanisms to control permissions.

- Ensure secure access to task-specific sections for designated teams.

3. Authentication System: Prativa

- Set up user authentication using Supabase.

- Implement secure login and role assignment functionalities.

4. Notification System: Purabh

- Build an in-app notification mechanism to alert users about assigned tasks.

- Integrate with the task assignment system for real-time updates.

5. Task Structure Design: Saurabh

- Define the structure and fields for tasks, including:

  - Task Name

- Description
- Date Assigned
- Deadline
- References/Resources
- Status

6. Documentation and Reporting: Abbas

- Maintain a well-structured GitHub repository with clear version control.
- Document app architecture, workflows, and prepare final reports and presentations.

7. UI/UX Design: Werda

- Develop user-friendly designs using **Figma**.
- Ensure the interface aligns with the app's functionality and user requirements.

Weekly Task Plan

Day 1: Monday - Research and Finalization

- **Objectives**:
  - Finalize app features, workflows, and design.
  - Complete individual research on allotted responsibilities.
- **Deliverables**:
  - Approved design and feature set.
  - Database schema, task structure, and notification flow.

Day 2: Tuesday - Development Kickoff

- **Objectives**:
  - Backend setup and integration with Supabase.
  - Start implementing authentication, role-based access, and task structure.
- **Deliverables**:
  - Initial app structure with working backend.

Day 3: Wednesday - Feature Development

- **Objectives**:
  - Complete implementation of all core features:
    - Task management
    - Notifications
    - Role-based access
    - Resource repository
  - Begin testing for functionality and integrations.
- **Deliverables**:
  - Fully functional app prototype.

Day 4: Thursday - Documentation and Testing

- **Objectives**:
  - Finalize app architecture and user documentation.

- Conduct thorough testing for bugs and usability issues.
- Prepare a comprehensive presentation.
- **Deliverables**:
  - Complete documentation and testing report.

Day 5: Friday - Review and Presentation

- **Objectives**:
  - Offline review and refinement of the app.
  - Present the app and gather feedback for further improvements.
- **Deliverables**:
  - Polished app ready for deployment.
  - Presentation slides and final documentation.

Daily Meeting Schedule

- **Time**: 9:30 PM
- **Agenda**: Progress updates, issue resolution, and next-day planning.

Tools and Technologies

- **Backend**: Supabase
- **Frontend**: Flutter
- **Design**: Figma
- **Documentation**: GitHub

Expected Outcome

Deliver a robust task management app for ISA-VESIT Council that enhances task allocation, deadline tracking, resource organization, and accountability while maintaining role-based security and efficient communication.