Mom's Kitchen Helper – Smart Recipe & Grocery App

Details of the Student :-

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- o   Class / Year :- TY.BScIT
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- o   Contact Number :- 8433574636
- o   Group Member :- 1

Problem Statement

Moms often struggle to plan meals based on available ingredients and forget grocery items. This app helps them find recipes and generate shopping lists easily.

Objectives

- Suggest recipes from available ingredients.
- Generate grocery lists automatically.
- Provide an easy-to-use interface.
- Allow saving favorites and tracking meal history.

Scope

- Mobile/Web app with recipe search and grocery list generation.
- Backend for data management.
- Optional offline mode and voice input support.

Block Diagram

User Interface

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Backend (Node.js / Python)

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Database (SQL / Firebase)

Tools & Tech Stack

- Frontend : React Native / Flutter / HTML+CSS+JS

- Backend : Node.js / Django / Flask

- Database : MySQL

References

- AllRecipes.com

- Firebase Documentation

AI-Powered Medicine Reminder and Inventory Management System

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Problem Statement :-

Managing medications and keeping track of inventory can be a challenging task for individuals, especially for the elderly or those with chronic illnesses. Missing doses or running out of essential medicines can lead to health risks. The proposed system aims to address these challenges by providing an AI-powered solution for medication reminders and inventory management.

Objectives of the Project :-
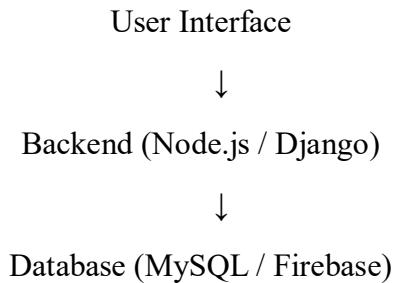
- Develop an AI-powered system to notify users about their medication schedules.

- Enable users to track medicine inventory levels and receive alerts for restocking.

- Provide a user-friendly interface to input and manage medicine data.

- Ensure accessibility across devices through a web and mobile application.

Scope of the Project :-

Designing a system to manage medication schedules and reminders.

- Implementing inventory tracking features for medicines.

- Using AI to analyze usage patterns and predict restocking needs.

- Supporting a multi-user environment for families or caregivers.

Block Diagram

User Interface

↓

Backend (Node.js / Django)

↓

Database (MySQL / Firebase)

Tools / Platforms / Languages to be Used :-

- o   Programming Languages: Python, JavaScript

- o   Frameworks: Flask /Django (backend), React (frontend)

- o   Database: MySQL

- o   AI Tools: TensorFlow or PyTorch for reminders and analytics

- o   Platforms: Web application and Android/iOS support

- o   IDEs: Visual Studio Code, PyCharm

References :-

- o   Relevant Research Papers on Medicine Reminder Systems

- o   Documentation of AI/ML libraries used

College Event Management Portal

- Name :- IQRA RIYAZ SHAIKH

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- Group Member :- 1

Problem Statement

Organizing college events is often chaotic due to lack of centralized planning, poor communication, and manual tracking — leading to missed deadlines, confusion, and low participation.
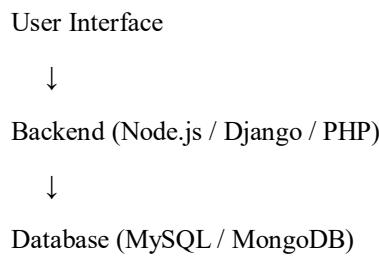
Objectives

- Create a web portal to manage event planning, scheduling, and coordination.

- Allow online registration and role assignment.

- Send automated reminders and updates.

- Provide calendar view and feedback system.

Scope

- Web-based platform with admin, coordinator, and student modules.

- Features: event creation, registration, task tracking, notifications, calendar, reports.

- Backend with database integration.

Block Diagram

User Interface

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Backend (Node.js / Django / PHP)

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Database (MySQL / MongoDB)

Tools & Tech Stack

- Frontend : HTML, CSS, JavaScript / React

- Backend : Node.js / Django / Flask / PHP

- Database : MySQL / MongoDB

References

- Eventbrite, Trello, Google Calendar (UI inspiration)

- Research papers on event management systems

Campus Navigation App

Student Details

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Problem Statement

Finding classrooms, labs, or event venues on a large campus is difficult for new students and visitors. A smart navigation app can help guide users easily using maps and location services.
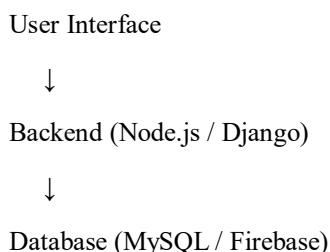
Objectives

- Provide indoor/outdoor turn-by-turn navigation

- Allow searching for buildings, rooms, restrooms, etc.

- Show event-based directions

- Support accessible routes

- Use GPS/Wi-Fi/Bluetooth for accuracy

Scope

- Mobile/Web App with interactive map

- Admin panel to manage locations and events

- Works in offline and online mode

- Optional QR code integration

Block Diagram

User Interface

↓

Backend (Node.js / Django)

↓

Database (MySQL / Firebase)

Tools & Tech Stack

- Frontend : Flutter / React Native / HTML+CSS+JS

- Backend : Node.js / Django

- Mapping : Google Maps SDK

- Location : GPS

- Database : MySQL

References

- Research papers on indoor navigation

- Google Maps API & Firebase Documentation