

Software Project Plan

Project Title: TheekKardo

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1. Work Breakdown Structure (WBS)

1.1 Project Initiation

- Define project scope and objectives
- Identify stakeholders
- Conduct feasibility study
- Assemble project team

1.2 Requirements Analysis

- Gather functional and non-functional requirements
- Define user stories and use cases
- Document system requirements

1.3 System Design

1.3.1 Architecture Design:

- Frontend (Web Application)
- Backend (Server, Database, APIs)

1.3.2 Database Design:

- User & Mechanic Profiles
- Service Requests
- Reviews

1.3.3 UI/UX Design:

- Wireframing & Prototyping

1.4 Development

1.4.1 User & Mechanic Management Module

- Login/Signup (Authentication & Authorization)
- Profile Management (User & Mechanic)

1.4.2 Service Request System

- Service Categories (Breakdown, Car Wash, Maintenance)
- Location-Based Request (Location Capturing)

- Real-Time Mechanic Availability

1.4.3 Real-Time Notification System

- In-App Notification System

1.4.4 Matching & Dispatch System

- Manual Mechanic Selection
- Bid Placing/Accepting
- Request Status Tracking

1.4.6 Reviews & Ratings

- User Reviews for Mechanics
- Mechanic Ratings for Users

1.4.7 Emergency & Safety Features

- Emergency Priority Option
- SOS Button Integration

1.4.8 Admin Dashboard

- User & Mechanic Management
- Platform Analytics

1.5 Testing

- Whitebox Testing using jest
- Blackbox Testing done manually and by using POSTMAN

1.6 Deployment

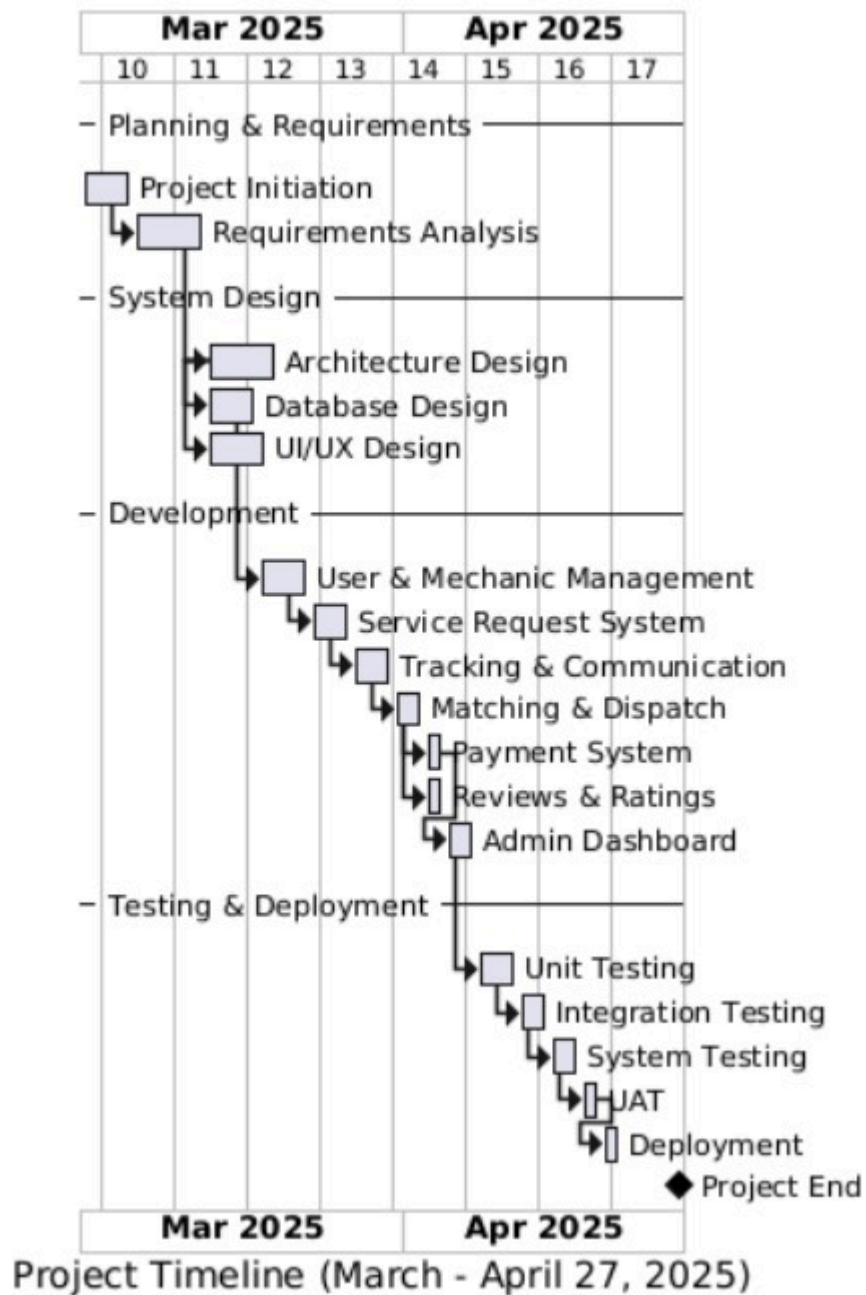
- Server Setup & Configuration
- Database Deployment
- Application Hosting:
 - Frontend: Deployed on Vercel
 - Backend: Deployed on Render

1.7 Maintenance & Support

- Bug Fixes & Updates
- Performance Optimization
- User Feedback Implementation

2. Project Gantt Chart

Vehicle Maintenance and Roadside Assistance System



3. Conclusion

This project plan outlines the structured approach to developing the Vehicle Maintenance and Roadside Assistance System, ensuring timely delivery and high-quality standards. The Work Breakdown Structure (WBS) divides tasks into manageable modules, while the Gantt Chart provides a clear timeline for execution.