

**CSE7101- Capstone Project
Review-1**

Mobile App for Direct Market Access for Farmers

Batch Number:CSE_198

Roll Number

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Problem Statement Number: 281

Organization: Ministry of Agriculture and Farmers Welfare

Category (Hardware / Software / Both) :Software

Problem Description: Create a mobile application that connects farmers directly with consumers and retailers. The app should include features for listing produce, negotiating prices, and managing transactions, thereby reducing dependence on intermediaries. Expected Solution: A user-friendly mobile platform that enables farmers to showcase their products and connect with buyers directly, enhancing their income potential.

Content

- Problem Statement
- Objectives
- Background and Related work for title Selection
- Analysis of Problem Statement
- Innovation or Novel Contributions
- Git-hub Link
- Timeline of the Project
- References

Analysis of Problem Statement

Technology Stack Components:

Frontend: Flutter (Dart) for cross-platform mobile app development

Backend & Database: Node.js and Firebase

Authentication: Firebase Authentication

Payment Gateway Integration: Razorpay or PayPal API

Push Notifications: Firebase Cloud Messaging (FCM)

Maps & Location Services: Google Maps API

IDE & Development Tools: Android Studio

Github Link

The Github link provided should have public access permission.

Github Link

<https://github.com/ramsakethboyapati/Capstone-project-Mobile-App-for-Direct-Market-Access-for-Farmers>

Analysis of Problem Statement (contd...)

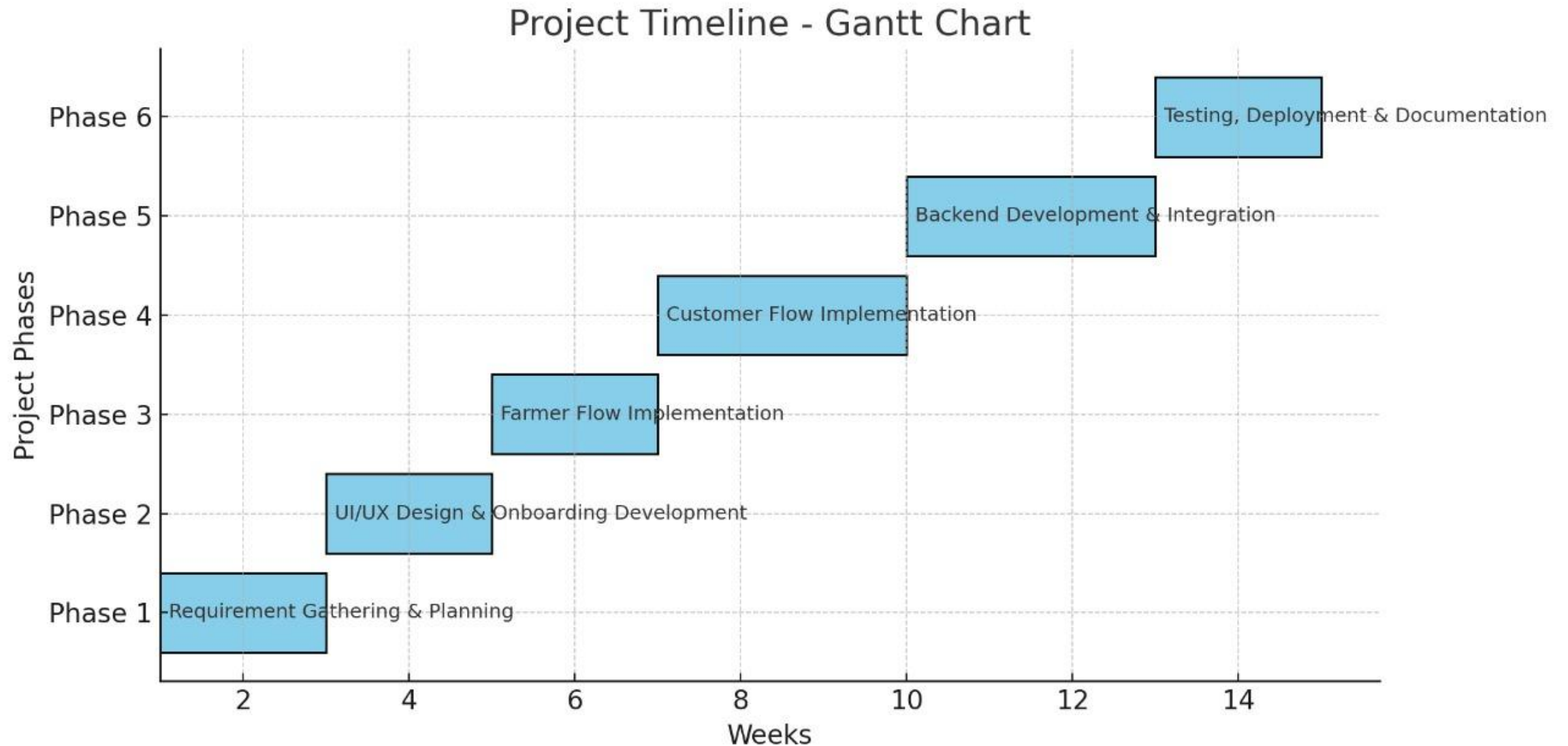
Software Requirements:

- Operating System: Windows 10 / macOS / Linux
- IDE: Android Studio (with Flutter & Dart plugins)
- Backend Services: Firebase (Cloud Firestore / Realtime Database, Authentication, FCM)
- Payment Gateway APIs: Razorpay / PayPal API
- Maps & Location API: Google Maps API

Analysis of Problem Statement (contd...)

The goal is to develop a mobile application that bridges the gap between farmers and end consumers or retailers by eliminating middlemen. This platform should allow farmers to list their produce, facilitate direct price negotiation, and manage transactions efficiently. By doing so, the app aims to empower farmers with better market access, increase their profitability, and provide consumers with fresher produce at competitive prices. The solution needs to be user-friendly and accessible to farmers with varying levels of digital literacy.

Timeline of the Project (Gantt Chart)



References (IEEE Paper format)

Kerzner, H. (2017). Project Management: A Systems Approach to Planning, Scheduling, and Controlling. Wiley.— A comprehensive guide on project management techniques including Gantt charts and project scheduling.

PMI (Project Management Institute). (2021). A Guide to the Project Management Body of Knowledge (PMBOK® Guide), 7th Edition. PMI.— An authoritative resource on project management best practices and methodologies widely used in the industry.



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