PIP2001 Capstone Project
Review-0

UPLIFITING THE FARMER THROUGHT A CONNECTED ECOSYSTEM

Batch Number : CAI-G03

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Problem Statement Number:

Organization: Mahindra & Mahindra(FarmEq)

Category : Software

Problem Description : How can a farmer gain access to all the elements of his farming cycle ? one stop shop where he has access to information from different aggregators, for retailing , leasing & finally taking his produce to the nearest mandi. Application to provide a means of easy transaction for all his farming activities and his personal expenses. Agri credit should help him buy /lease Farm Machinery & have access to all the local vendors for his plantation needs including expert advice from the local university.

Difficulty Level: Complex

- The project is complex and faces challenges in real-time data integration
- Difficulty in finding machinery and taking farms for rent.
- Implementing features like weather data and mandi prices requires API integration.

Analysis of Problem Statement

Technology Stack Components:

Programming Language: XML- Frontend, JAVA- Backend

Database: Firebase

Toolkit- Android Studio

SDK- Android SDK

Analysis of Problem Statement (contd...)

Software Requirements:

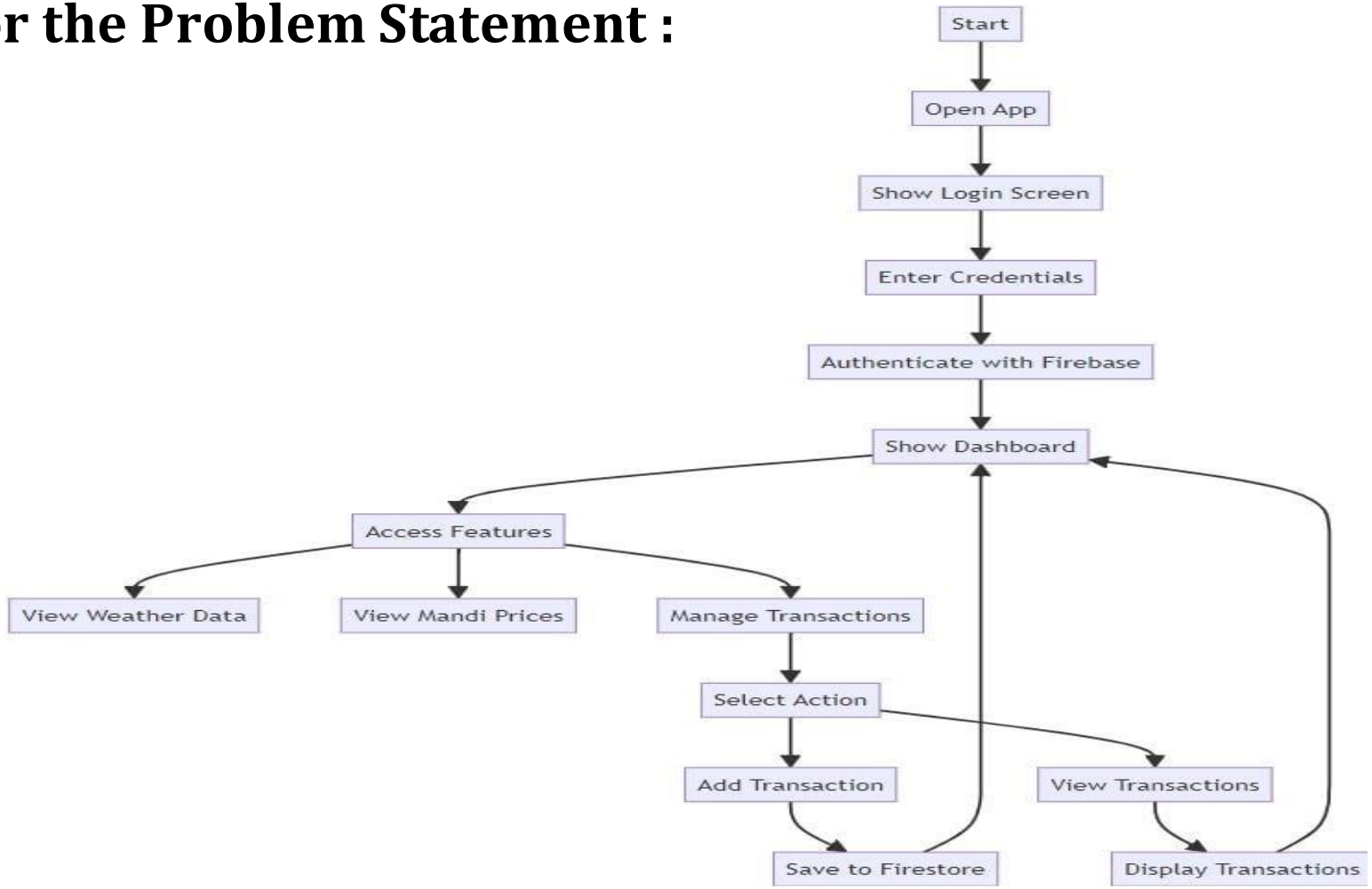
Figma- To develop the UI/UX of the app

Android Studio- To develop the app

Firebase-For data storage

Analysis of Problem Statement (contd...)

Block Diagram for the Problem Statement :



Timeline of the Project (Gantt Chart)

PHASE	START DATE	DURATION
Phase 1: Setup & Initial Development	Sep 16, 2024	1 Week
Phase 2: Frontend Design and Development	Sep 25, 2024	2 Weeks
Phase 3: Backend Development & Integration	Oct 15, 2024	2 Weeks
Phase 4: Testing and Finalization	Nov 1, 2024	2 Weeks

References (IEEE Paper format)

- https://ymerdigital.com/uploads/YMER210478.pdf
- https://www.upwork.com/resources/how-to-design-a-mobile-app
- https://www.researchgate.net/publication/374164307_Mobile_Applications_Empowering_Smallholder_Farmers_An_Analysis_of_the_Impact_on_Agricultural_Development


Thank
You!