

Project: Finance Buddy

Plan Introduction

This Software Development Plan (SDP) outlines the process, resources, and schedule for developing Finance Buddy, an AI powered personal finance mobile app designed to help users track spending, set savings goals, and learn financial literacy through gamified challenges and personalized insights.

The project will be developed using Agile methodology, with iterative sprints focusing on incremental feature delivery. Each sprint will include planning, development, testing, and reflection. The goal is to produce a fully functional Minimum Viable Product (MVP) by the end of the semester.

Key Milestones

Milestone	Description	Target Date
SRS (Requirements)	Finalize user stories, functional/non-functional requirements	Week 5
SDP	Define schedule, resources, and organization	Week 8
Prototype Test	Implement core UI and dashboard functionality	Week 11
Beta Testing	Integration of AI categorization + goal tracking	Week 13

Project Deliverables

Software Requirements Specification (SRS)

A detailed document defining all functional and non-functional requirements, user stories, and acceptance criteria for Finance Buddy.

Software Development Plan (SDP)

The current document, describing the project organization, resources, schedule, and timeline.

Prototype Implementation

A preliminary demo including the login screen, dashboard layout, and dummy financial data visualization.

Beta Version (Integration Phase)

Integration of Firebase authentication, expense tracking, and goal tracking modules.

Final MVP Submission

Fully functional Finance Buddy application with AI-powered categorization, gamified lessons, and notifications.

Presentation & Demo Video

Recorded presentation demonstrating app functionality, development process, and reflection on results.

Project Resources

Hardware Resources

Hardware	Purpose	Specifications
MacBook Air (M4, 2024)	Primary development machine	macOS Sonoma

iPhone 17	Testing device	iOS 18
Cloud Firestore Server	Backend data storage	Firebase cloud infrastructure

Software Resources

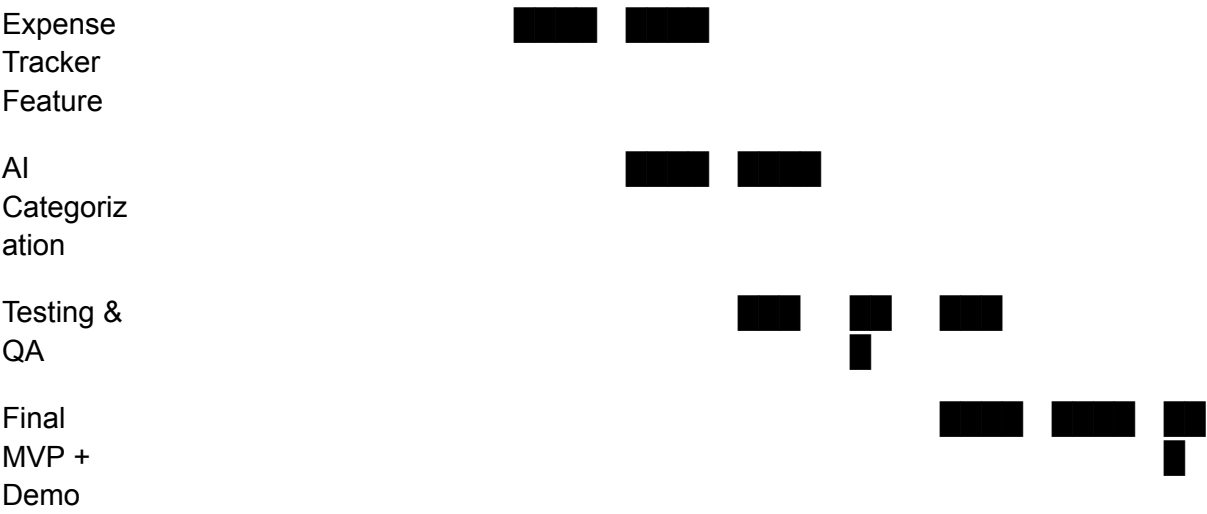
Software	Version	Purpose
Xcode	16.0	Swift UI mobile app development
Firebase		Authentication, Firestore, Hosting, Storage
GitHub		Version control and collaboration
Canva / Figma		UI/UX design and prototyping
Python + OpenAI CLIP	3	AI categorization and analytics module
Google Sheets		Schedule and budget tracking
Notion		Sprint planning and Agile tracking

Project Organization

Team Member	Role	Responsibilities
A’Kaia Phelps	Project Manager	Full-stack development (frontend + Firebase backend), AI integration, sprint management
Natasha Cordova-Diba	UI/UX Designer	App layout design, component styling, prototyping
Hannah Holden	Backend Developer	Database schema, authentication logic, API handling

Schedule

Task	Week 6	7	8	9	10	11	12	13	14	15
Requirements (SRS)	████████									
Software Development Plan		████████								
UI Design		████████	████	██						
Firebase Setup			██████	██████						



Critical Path: Firebase Setup → Expense Tracker → AI Categorization → Testing → Final Demo

Task/Resource Table

Task	Assigned Developer	Hardware	Software
UI/UX Design	Natasha	MacBook	Figma, Xcode
Firebase Integration	Hannah	MacBook	Firebase, Xcode
Authentication System	Hannah	MacBook	Firebase Auth
Expense Tracker	Akaia	MacBook	SwiftUI, Firestore
AI Categorization	Natasha	MacBook	Python, CLIP, Firebase
Testing & QA	Akaia	iPhone	Xcode Test, Firebase
Presentation	Hannah, Akaia, Natasha	Laptop	PowerPoint, Canva