PROJECT PLAN DOCUMENT

(Updated: April 20, 2025)

Project number 2 (Team number)

Project Title Finease

Document Project Plan
Creation date 12/02/2025
Updated on 20/04/2025
Updated By Nidhi Vaidya

Client Sarath Chandra Makineni (Kaizen platforms)

Brief problem statement

Finease is a comprehensive platform that streamlines business operations such as data entry, reconciliation, and regulatory compliance for ITR, GST, and PF filings. The platform leverages WhatsApp and a custom chatbot for user interaction, automates document processing, and provides functionalities for generating E-Waybills, delivery challans, and displaying key financial metrics on a dashboard.

Team Members

- 1. Swam Singla
- 2. Kushagra Trivedi
- 3. Nidhi Vaidya
- 4. Ronak Gaur
- 5. Ayush Kumar Gupta

Team Communication

Our team follows an Agile Scrum methodology, ensuring effective communication through regular interactions:

- Daily Stand-up Meetings: Conducted regularly to discuss progress, roadblocks, and plans for the week.
- Sprint Planning Sessions: Held at the beginning of each sprint to define tasks and set priorities.
- **Retrospectives:** Conducted at the end of each sprint to review team performance and identify areas for improvement.

- Client Collaboration: Regular meetings with the client to ensure alignment with expectations and evolving requirements.
- **Instant Communication:** Team members stay connected through WhatsApp for quick updates and discussions.

Development Environment

The development of this project utilizes a diverse set of tools and technologies to ensure efficiency, collaboration, and seamless deployment.

Technology Stack

- Programming Languages & Frameworks:
 - Backend: Node.js, Express.js
 - Frontend: React.js (Web App), React Native (Mobile App)
 - UI Styling: TailwindCSS
- APIs & Integrations:
 - Gemini API (For general tax filing questions)
 - NanoNets (For document classification and data extraction)
 - WhatsApp API with user authentication
- Database & Storage:
 - MongoDB (Database)
 - MongoDB Atlas (Cloud Database)
- Document Processing:
 - py-tesseract for OCR
 - PIL (Python Imaging Library) for image processing
- Development Tools:
 - IDE & Code Editors: Visual Studio Code (VS Code)
 - API Testing: Postman
 - Local Hosting & Tunneling: Ngrok
 - Webhook Integration: Twilio
 - Mobile App Testing: Expo Go
- Collaboration & Documentation:
 - GitHub (Version Control)
 - Google Docs (Project Documentation)
 - WhatsApp/Google Meet (Team Communication)

• Deployment:

- Vercel (Frontend Deployment)
- Render (Backend Deployment)
- Docker (Containerization)

Feature Implementation Status

No.	User Case Name	Release	Status
1	WhatsApp Integration: Collects invoices, purchase	R1	Completed
	records from users via WhatsApp with added user au-		
	thentication. Integrated with Gemini API for general		
	tax filing questions		
2	Custom App Chatbot: Guides users through the web-	R1	Completed
	site for seamless navigation		
3	E-Waybill Generation: Automates E-Waybill creation	R1	Completed
	through API integration		
4	Delivery Challan Management: Generates challans for	R1	Completed
	goods transport		
5	ITR Filing: Displays data in JSON format ready for	R2	Modified
	filing. Direct API integration for filing was not imple-		
	mented due to API unavailability		
6	GST Filing: Displays data in JSON format ready for	R2	Modified
	filing. Direct API integration for filing was not imple-		
	mented due to API unavailability		
7	PF Filing: Enables employees to add information about	R2	Modified
	their employees and generate ECR documents		
8	Dashboard Analytics: Displays key metrics such as life-	R2	Added
	time earnings and tax saved on a dashboard interface		
9	Scanning and uploading Documents: Scan and upload	R1	Completed
	documents for GST/PF/ITR filing and classify them		
	and extract data from them using external API		
10	Notifications: Sending automated notifications through	R2	Modified
	the website interface		
11	React Native App: Cross-platform application that	R2	Added
	works on both web version and Expo Go		

Updated Milestone Schedule

Milestone	Due Date	Release	Deliverable?
Create draft require-	07/02/25	R1	No
ments			
Finalize requirements	14/02/25	R1	Yes
Complete Backend De-	10/03/25	R1	Yes
velopment			
Implement API Integra-			
tions (WhatsApp, Gem-	20/03/25	R1	Yes
ini, NanoNets)			
R1 Features Completion			
(WhatsApp Integration,	25/03/25	R1	Yes
Chatbot, E-Waybill,	29/09/20	101	105
Document Upload)			
Frontend Development	30/03/25	R2	Yes
Completion			
R2 Features Implementa-			
tion (ITR/GST/PF Fil-	05/04/25	R2	Yes
ing, Dashboard, Mobile	00/04/20	102	105
App)			
Testing & Bug Fixing	10/04/25	R2	Yes
Final Deployment	15/04/25	R2	Yes

Risk Management Plan

Risk	Impact	Mitigation	Priority
		Strategy	
Government API Unavailability	Unable to imple-	Implement JSON	High
	ment direct filing	data export func-	
	for ITR, GST, and	tionality as an al-	
	PF	ternative solution	
Document Processing Accuracy	Incorrect data ex-	Implement valida-	High
	traction could lead	tion checks and	
	to compliance is-	manual review op-	
	sues	tions for extracted	
		data	
Cross-Platform Compatibility	Inconsistent user	Extensive test-	Medium
	experience across	ing on multiple	
	web and mobile	platforms and	
	platforms	browsers	
Data Security Concerns	Financial and com-	Implement encryp-	High
	pliance data re-	tion, secure au-	
	quires strict secu-	thentication, and	
	rity measures	access controls	
Integration Complexity	Multiple API inte-	Prioritize core	Medium
	grations could lead	integrations and	
	to development de-	implement pro-	
	lays	gressive develop-	
		ment	

Testing Strategy

- Unit Testing: Individual components and functions testing
- Integration Testing: Testing API integrations and data flow between components
- User Acceptance Testing: Involving client and end-users for feedback
- Cross-platform Testing: Ensuring compatibility across web and mobile platforms
- Security Testing: Validating authentication and data protection measures