

Project Charter – Qattah

1. Project Objectives

Purpose:

To build a web application for managing shared expenses among friends/groups by split the amount for each user equally, using Node.js environment for backend ,React + Vite + TypeScript + Tailwind CSS for the frontend, supabase (PostgreSQL) for database and authentication, and deploy it on Railway.

SMART Objectives:

- Develop an interactive interface (Login, Signup, Dashboard, Group Activity).
- Integrate supabase database with 5 main Collections (Users, Groups, Friends, Activity, Transactions).
- Deploy an MVP on Railway to be available for trial use by the end of Stage 4.

2. Stakeholders & Roles

Stakeholders:

- Internal: Team members (Developers, UI Designer, Project Manager).
- External: End-users (friends/students/colleagues)

Role	Responsibilities	Member name
Project Manager	Monitor progress, coordination, task distribution	Ibrahim
Frontend Lead	Build React + Tailwind CSS UI, manage pages	Khaled
Backend/DB Lead	Setup and connect supabase, create collections and relationships	Fahad
Tester Lead	Test features (login, groups, add expenses), ensure quality	Fahad
Documentation Lead	Update README, prepare user guide, assist with presentations	Khaled

The Team will collaborate on writing both the backend and frontend code

3. Scope

In-Scope:

- User authentication (Login/Signup) using supabase.
- Group creation and member management.
- Record activities (expenses) and split among members.
- Display user transactions and settlements.
- Simple and user-friendly interface.


Out-of-Scope:

- Online payment integration with banks.
- Independent mobile application (iOS/Android).
- Advanced features like PDF reports or detailed financial analytics.

4. Risks & Mitigation

Risk	Mitigation
Lack of team experience with supabase	Rely on official documentation, video guides, and community support
Errors in collection relationships	Use provided migration or .env setup to avoid mistakes
Slow frontend development	Use pre-built Tailwind components to speed up delivery
Deployment issues on Railway	Test early deployment before full feature completion

5. High-Level Plan (Timeline)

- Week 1-2: Team Formation + Idea Validation 
- Week 3-4: Project Charter preparation + Setup environment + supabase integration (current)
- Week 5-6: Build core interfaces (Login, Signup, Home, Profile)
- Week 7-8: Develop expense management features (Groups, Activity, Transactions)
- Week 9: System testing (Unit + Integration Tests)
- Week 10: MVP deployment on Railway + Documentation
- Week 11-12: Final presentation, feedback collection, and closure

6. Deliverable

A complete Project Charter document including:

- Project Objectives
- Stakeholders & Roles
- Scope (In/Out)
- Risks & Mitigation
- Timeline

TEAM of Project

Fahad Al-onazi

Khaled Al-mimoni

Ibrahim Al-faleh