

# Project Charter – Qattah

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## 1. Project Objectives

Purpose:

To build a web application for managing shared expenses among friends/groups, similar to Splitwise, using React + Vite + TypeScript + TailwindCSS for the frontend, Appwrite for database and authentication, and deploy it on Railway or Vercel.

SMART Objectives:

- Develop an interactive interface (Login, Signup, Dashboard, Group Activity) within 6 weeks.
- Integrate Appwrite 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), academic supervisors, potential GitHub contributors.

Role	Responsibilities
Project Manager	Monitor progress, coordination, task distribution
Frontend Developer	Build React + TailwindCSS UI, manage pages
Backend/DB Developer	Setup and connect Appwrite, create collections and relationships
QA/Tester	Test features (login, groups, add expenses), ensure quality
Documentation Lead	Update README, prepare user guide, assist with presentations

## 3. Scope

In-Scope:

- User authentication (Login/Signup) using Appwrite.
- 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 Appwrite	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 + Appwrite integration
- 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

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