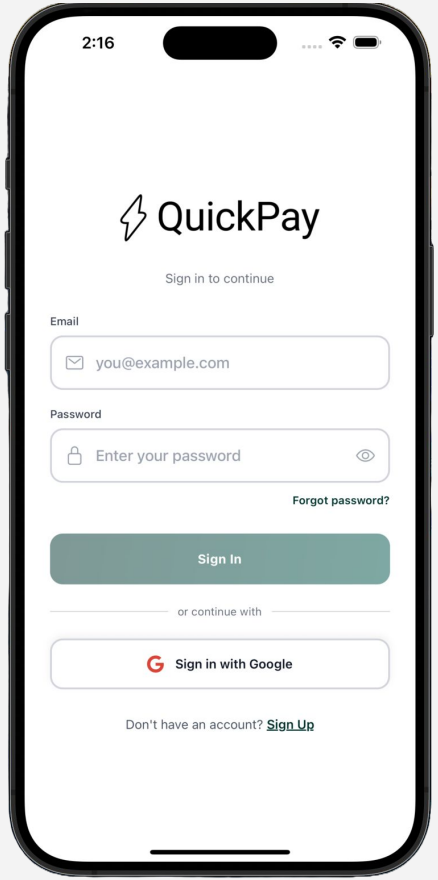
QuickPay

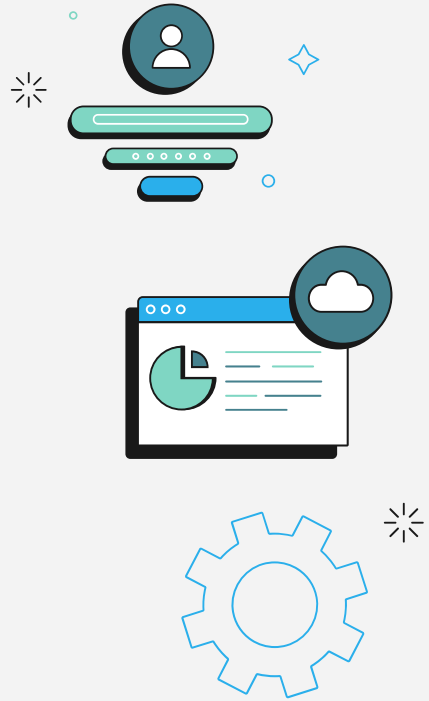
Team B – CSCI 441 Software Engineering

Members:

- Chanrattnak Mong - Frontend & Authentication Engineer
- Seanglong Lim - Backend Integration Engineer
- Seth Tharo Hour - Backend Integration Engineer
- Sok Sreng Chan - Frontend Engineer



Customer Problem & Requirements



Problem:

- Hard to track spending across several bank apps
- Manual updates → inaccurate balances
- Stress over bill-splitting and delayed payments

Customer Wants:

- One dashboard for all banks
- Real-time spending visualization
- QR/group payments & full transparency

Current System Specifications

Functional:

- QR Code & Split payments
- Flowchart visual budgeting

Non-Functional:

- Security - Clerk, PLAID, Stripe
- Uptime - Supabase Severless
- Do not store sensitive user data

Tools & Technologies

Frontend

Backend (Underway)

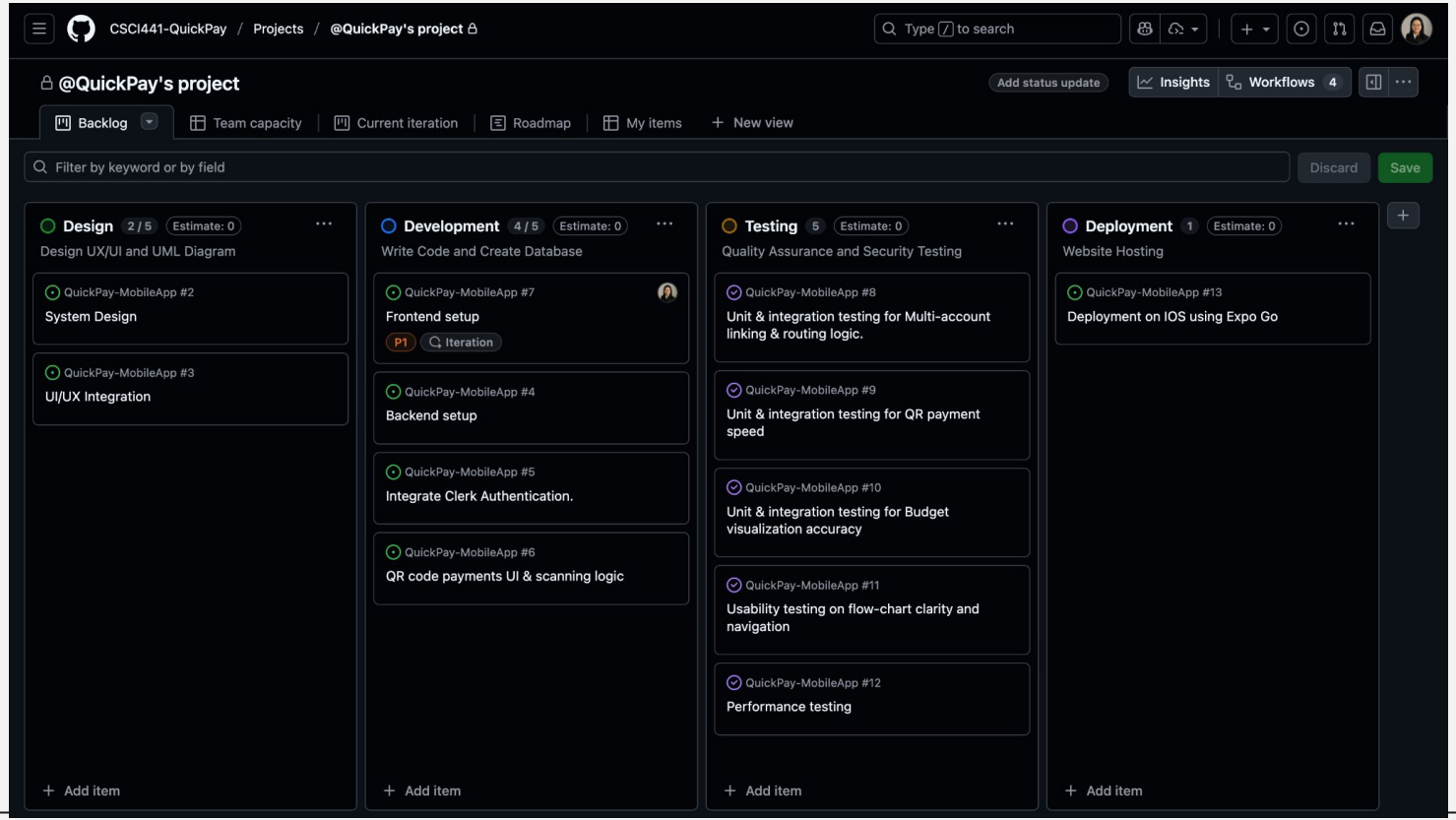
Database

API Integration

Authentication

Deployment

Project Roadmap



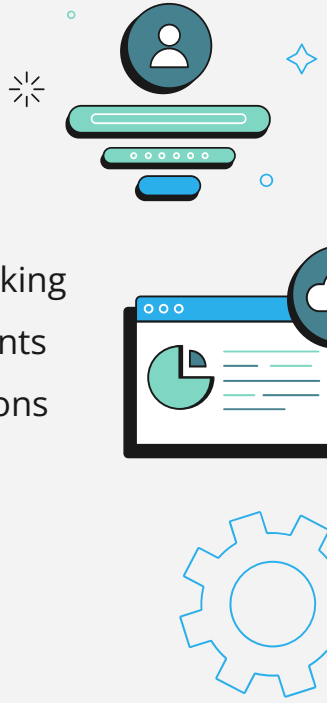
Project Challenges & Future Work

Challenges:

- Security Implementation
- Unfamiliar API Integrations
- Real-Time Data Handling
- Cross-Platform Development (Android & iOS)

Future Work:

- Conduct Security Tests
- Implement Multi-account Linking
- Enable Request/Send Payments
- Support Real-Time Transactions



Competitive Analysis

Features/ Competitors	QuickPay	Cash App	Rocket Money	CHASE
Non Custodial	***YES***	NO	YES	No
Multi-Account Linking	***YES***	NO	YES	NO
Expense Splitting	***YES***	Send / Receive Only	NO	Manual Transfer
Budgeting & Insights	***Interactive Budget Flow***	Basic Spend List	AI-based Budgeting	Basic Charts
Payment Method	***QR-Code Payment***	QR-Code Payment	NO	Bank transfers
Financial Alerts	***Real-time overspend/ low balance***	Send / Receive Only	Bill reminders	Standard alerts

Conclusion

- QuickPay aims to transform how people manage their daily finances by offering an all-in-one platform that connects multiple bank accounts, automates budgeting, and simplifies group payments.
- With our advance integration like **Plaid**, **Stripe**, and **Clerk**, our team designed a secure and user-friendly system that gives users real-time visibility into their financial activities.
- The project not only reduces the stress of manual tracking but also encourages responsible spending habits.
- Moving forward, we plan to enhance QuickPay features, improve its user interface, and prepare it for real-world deployment to help people take full control of their finances effortlessly.
- **Test our project:** https://github.com/CSCI441-QuickPay/QuickPay-MobileApp