# Fin Tracker Project Documents

## Project Charter

### Project Title:

Fin Tracker

### Date and Project Manager:

Date: 5/3/2024

Project Manager: Panda

### Project Scope:

Description of the Project: Develop a Django/React application that runs locally on a Raspberry Pi to manage and track transaction data across various accounts for different customer types.

Objectives: Ensure the system is capable of handling transaction data securely and effectively, providing a unified view of account transactions and balances.

### Stakeholders:

Panda (Project Manager)

[Your Name] (Developer)

### Roles and Responsibilities:

[Your Name]: Responsible for all development activities including planning, coding, testing, and deployment.

Panda: Oversees project management, including scheduling, risk management, and quality assurance.

### Deliverables:

A fully functional local Django/React application capable of managing and tracking transactions securely within a local network.

### Technical Specifications:

Backend (Django): Includes models for Customer, Account, Transaction, AccountType; utilizes Django REST Framework for CRUD operations; SQL database; local network security enhancements.

Frontend (React): Features interactive UI components; utilizes Redux or Context API for state management; employs Fetch/Axios for backend communication.

### Development Environment:

Development conducted on a laptop with a simulated Raspberry Pi environment using Docker or virtual machines. The deployment will occur on a Raspberry Pi to run the developed application within a local network.

### Resources:

As no budget is available, all tools and technologies must be free or open-source. The project will utilize Django, React, Docker, and Raspberry Pi, along with any necessary free development tools or libraries.

### Risk Management:

Risk Identification:

- Technical risks such as compatibility issues with Raspberry Pi.

- Security risks associated with local network data management.

- Project delay risks due to solo development workload.

Mitigation Strategies:

- Regularly update and patch all software to minimize compatibility and security issues.

- Implement basic security practices and consider local network security tools that are open-source.

- Use Agile development techniques to manage workload and prioritize tasks effectively.

### Communication Plan:

[Your Name] will update a Trello board with completed tasks.

Panda (Project Manager) will review updates and respond with feedback through a word document containing the project charter and updated Kanban boards.

### Approval:

Signatures: [Space for signatures from Panda and [Your Name] to approve the charter.]

### Appendices:

Additional Information: [Include any supplementary information or documentation relevant to the project.]

## Notional Kanban

### To Do

Research security best practices for Django applications in local networks.  
Design database schema for Customer, Account, and Transaction models.

### Blocked

None currently.

### Doing

Setting up initial project structure in Django.

### Next

Begin development of frontend components using React.

### Done

Project requirements and initial planning.

### Cancelled

[List any tasks that are no longer viable or necessary.]

## Kanban Board

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| To Do | Blocked | Doing | Next | Done | Cancelled |
| Research security best practices for Django applications in local networks | None currently | Setting up initial project structure in Django | Begin development of frontend components using React | Project requirements and initial planning | [List any tasks that are no longer viable or necessary] |
| Design database schema for Customer, Account, and Transaction models |  |  |  |  |  |