

PRESENTED BY:



CODEBLOODED

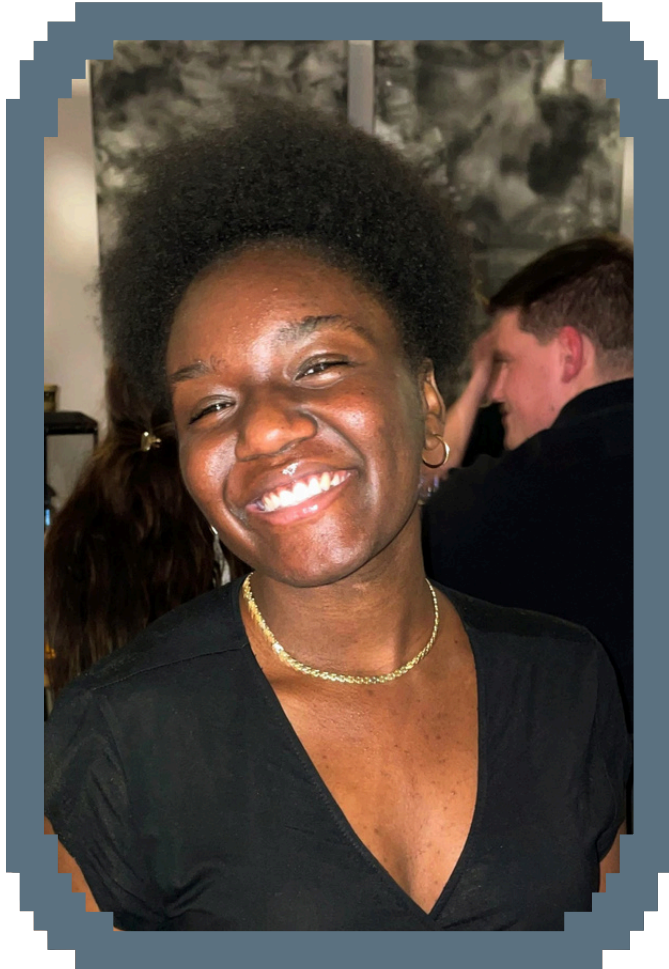
Gamified Financial Visualizer



The logo for EPI·USE, featuring a stylized red and blue 'E' followed by the text 'PI·USE' in blue.



MEET THE TEAM



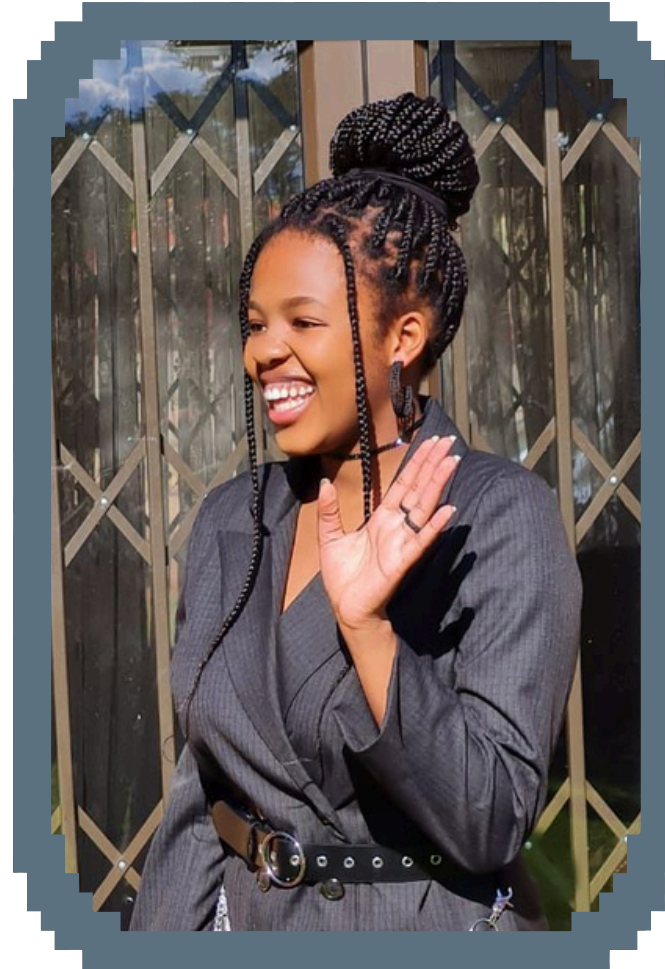
Yohali Malaika Kamangu

Project Manager,
Data Engineer



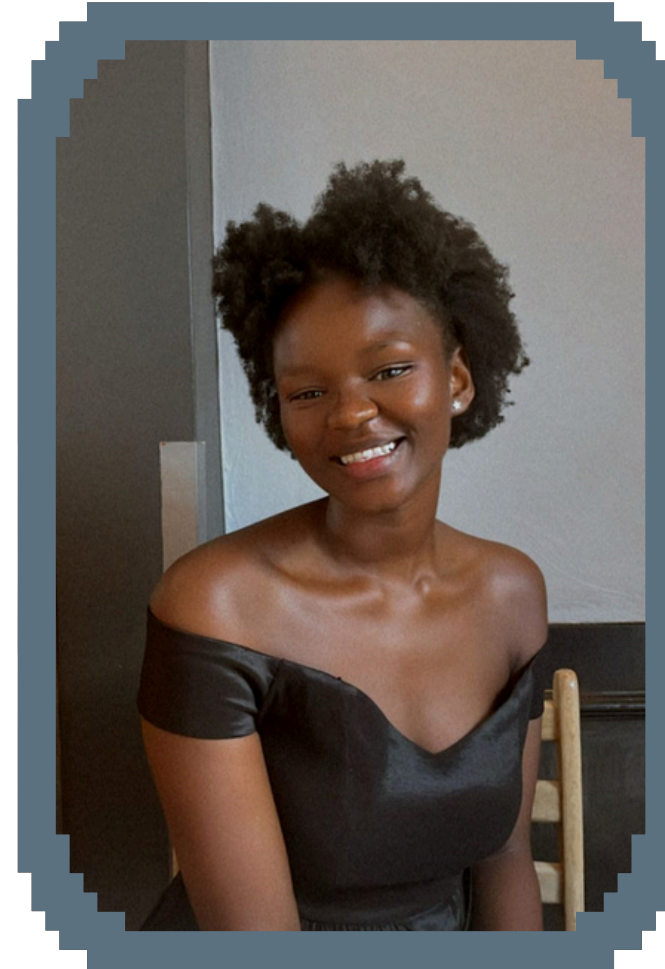
**Ngaletsane Lebogang
Masenya**

Systems Architect,
Services Engineer



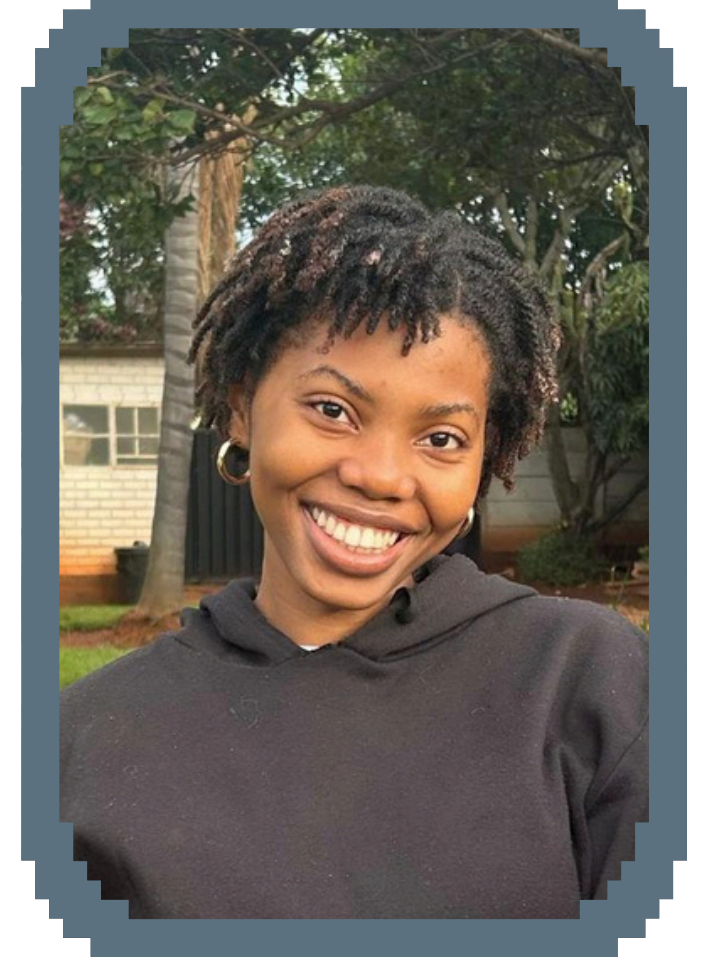
Mpho Martha Siminya

UI/UX Engineer,
Front-End Architect



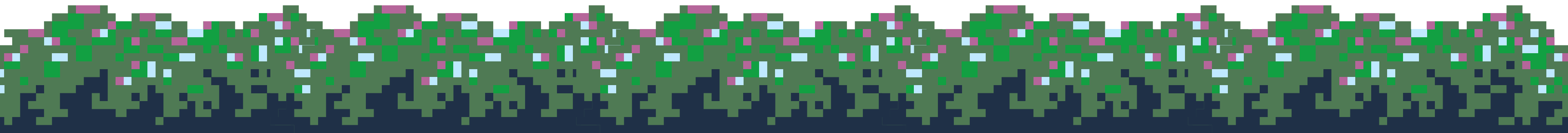
**Nobuhle Reitumetse
Mtshali**

DevOps,
UI engineer



Aundrea Nandie Ncube

Integration Engineer,
Testing Engineer



WHAT IS THE GAMIFIED FINANCIAL VISUALIZER

The Gamified Financial Visualizer is a cross-platform solution that leverages VR, AR, and AI to reimagine financial literacy as an engaging, game-like experience. Designed for digitally native users—particularly those interested in financial management—the platform makes budgeting, saving, investing, and spending management interactive and accessible. Aligned with EPI-USE’s strategic goals, the solution integrates advanced AI and Machine learning to analyze transactions data and provide real-time, personalized financial advice contextualized to local realities.



Users can explore financial goals through immersive AR/VR environments, engage with AI financial coaches, and navigate 3D “financial worlds.” A built-in community layer promotes social accountability through group challenges, shared milestones, and peer encouragement. The platform supports mobile and web access, with future expansion planned for VR headsets and AR-enabled devices. Secure, read-only integration with South African banks and crypto wallet APIs ensures users can safely view all accounts and portfolios in one place.

FUNCTIONAL REQUIREMENTS

Introduction

Use Case Diagrams

User Stories

Domain Model

CI//CD Pipeline

Unit Tests

Group Consistency

Scrum Framework

GitHub Strategy

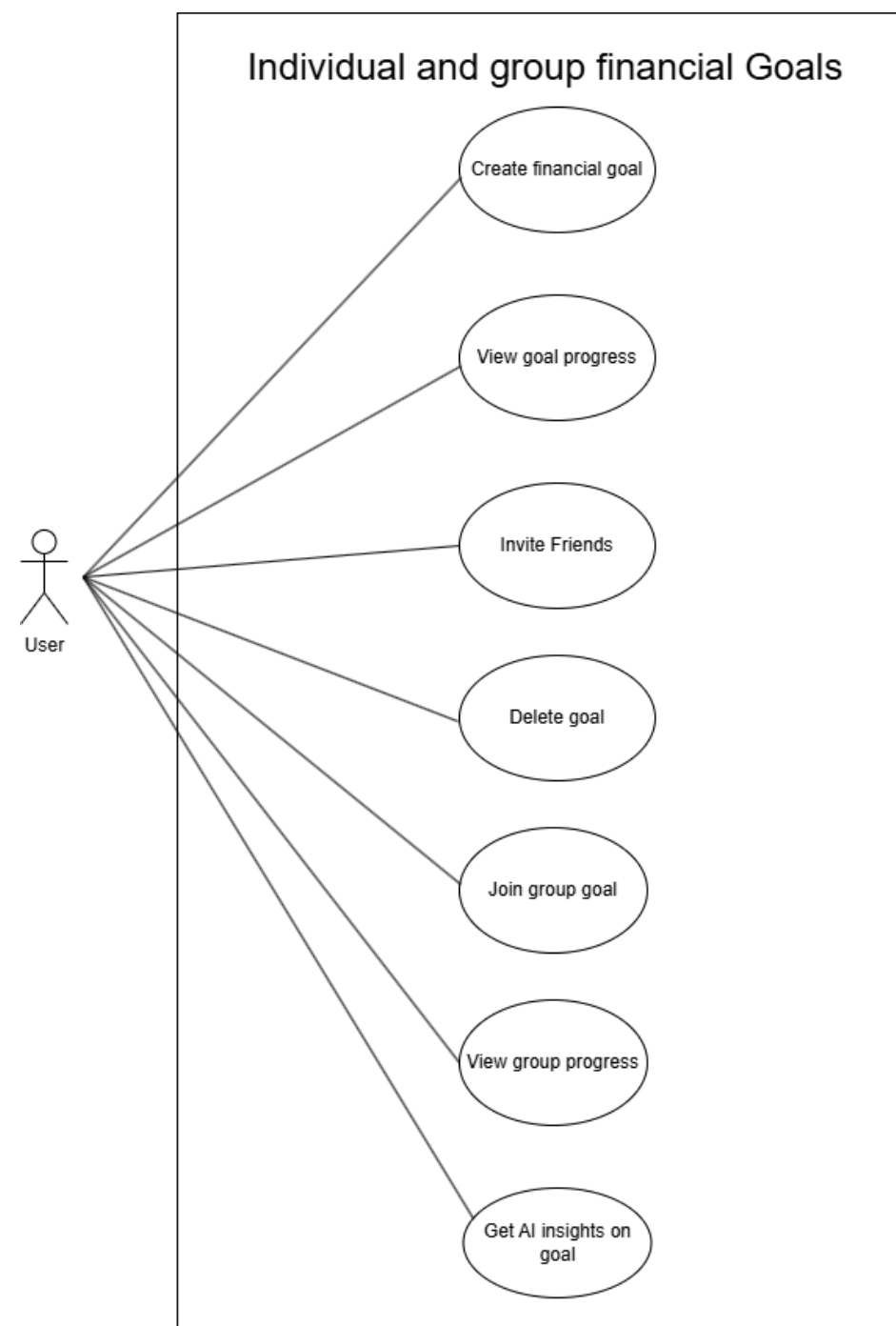
Live Demo

What's Next?

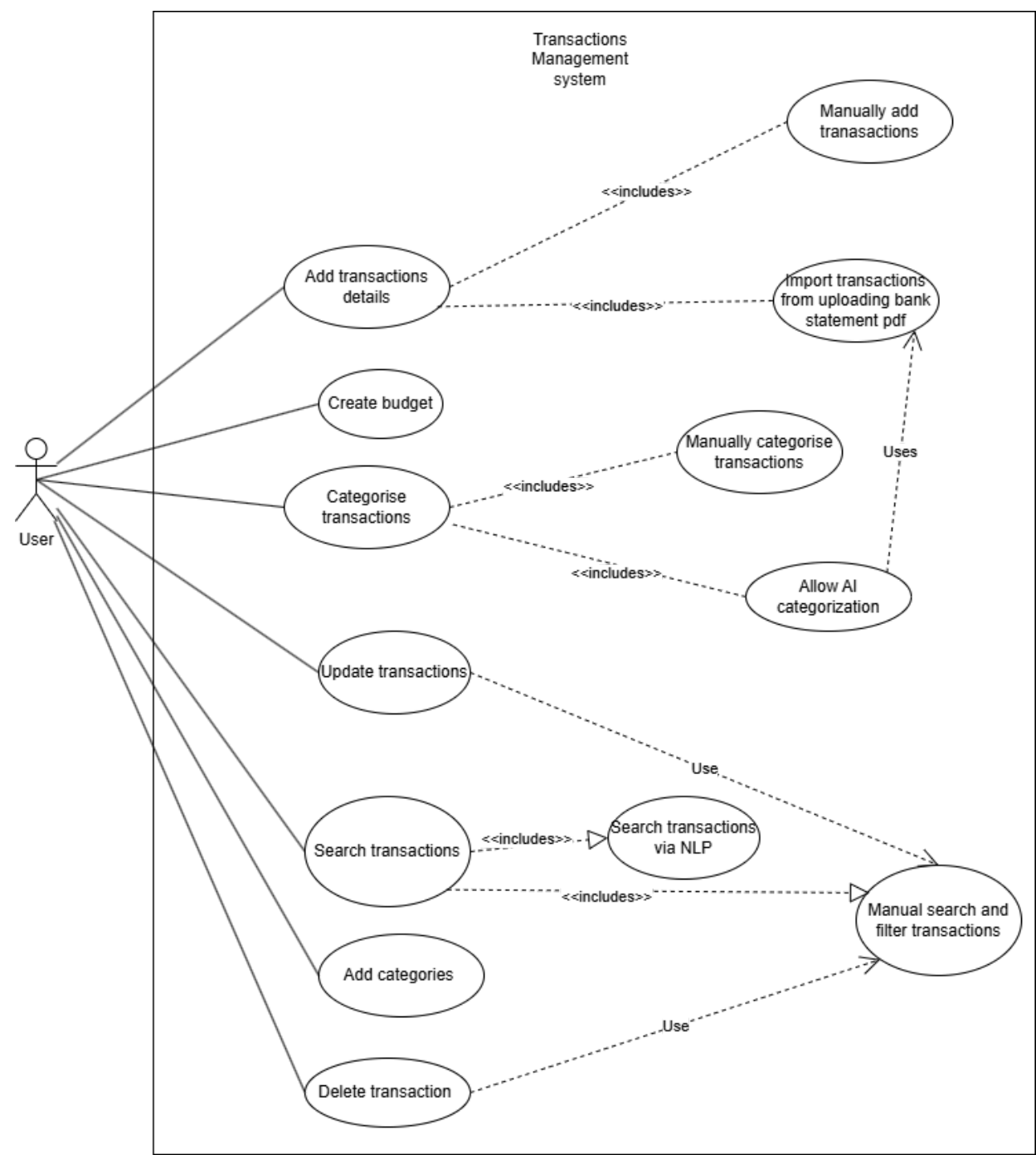


USE CASE DIAGRAMS

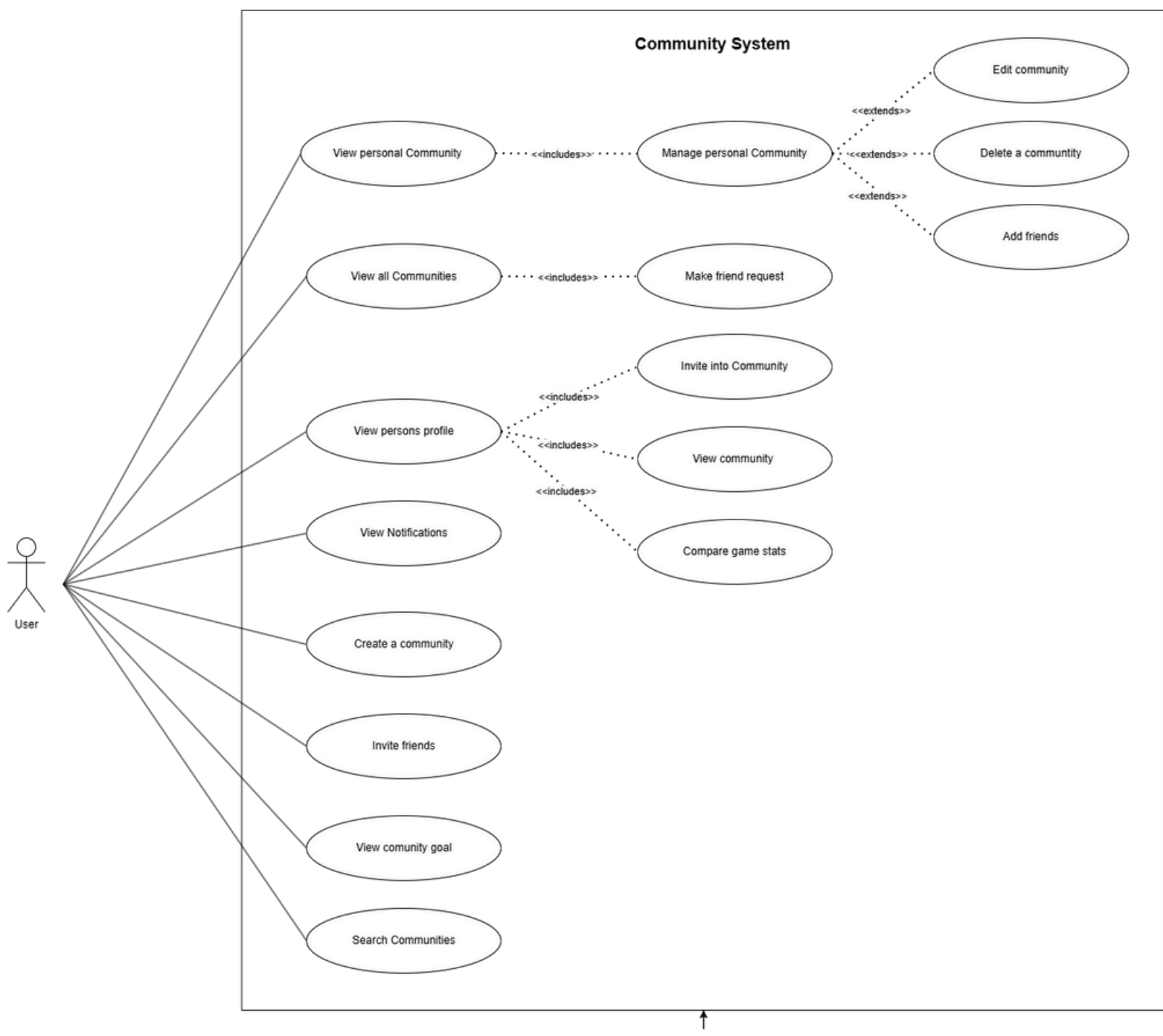
UC12: Financial Goals



UC8: Transactions



UC11: Community



USER STORIES

User story 1: Create a budget

Transactions

As a user, I want to create a budget for a specific transaction category, So that I can effectively manage transactions and track expenses.

Acceptance criteria:

Given I open the create form for the budget, when I click save, then the budget for that category is created to manage the transactions

User story 2: Create a transaction

Transactions

As a user, I want to manually input and categorize transactions to track them independently.

Acceptance criteria:

Given I open the form, when I input data, then it should be saved and categorized.

User story 3: Set up a goal

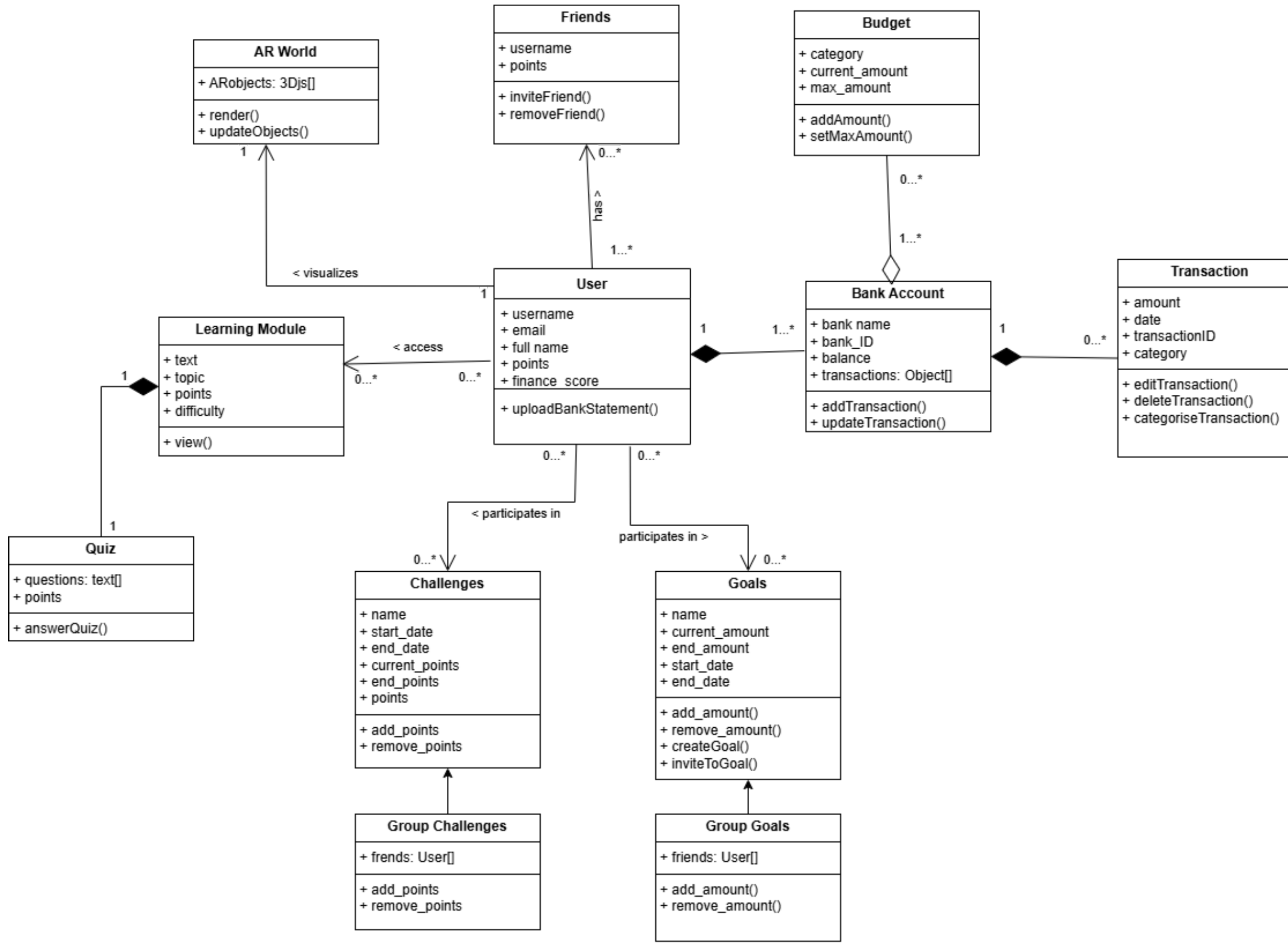
Goal Management

As a user, I want to create savings goals so I can track toward big purchases.

Acceptance criteria:

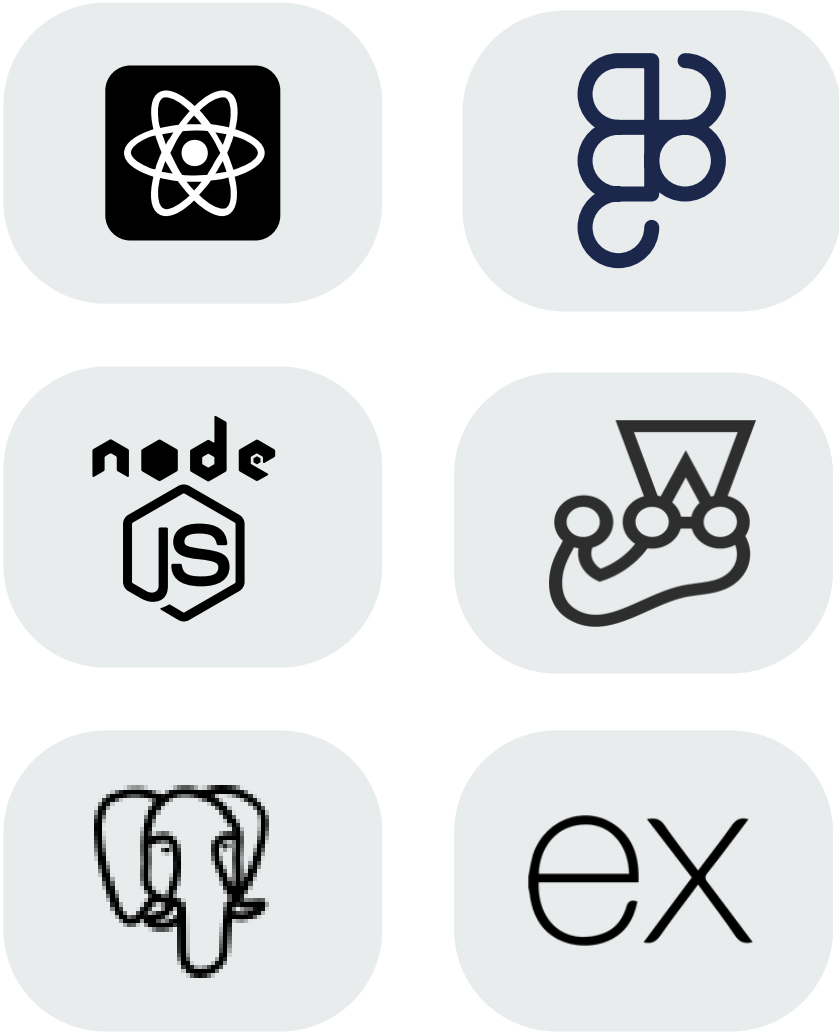
Given I fill out the goal form, when I click save, then the goal is tracked.

DOMAIN MODEL V1

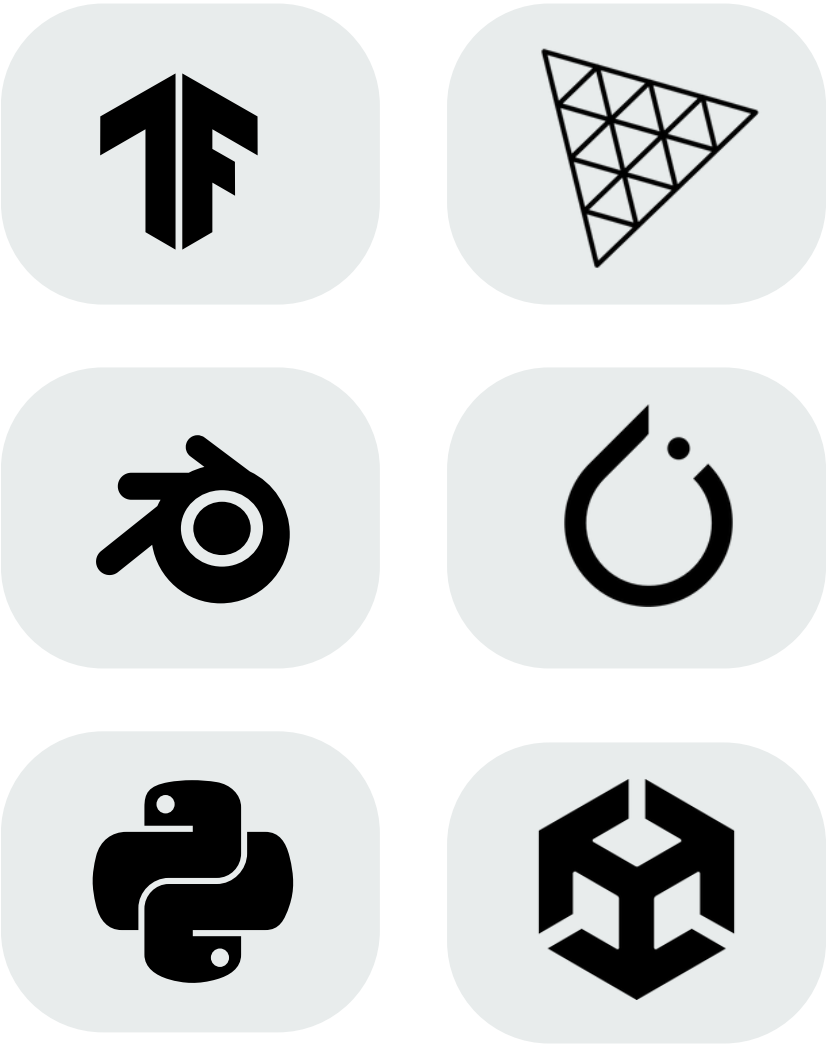


TECH STACK

CURRENT TECHNOLOGIES



INCOMING TECHNOLOGIES

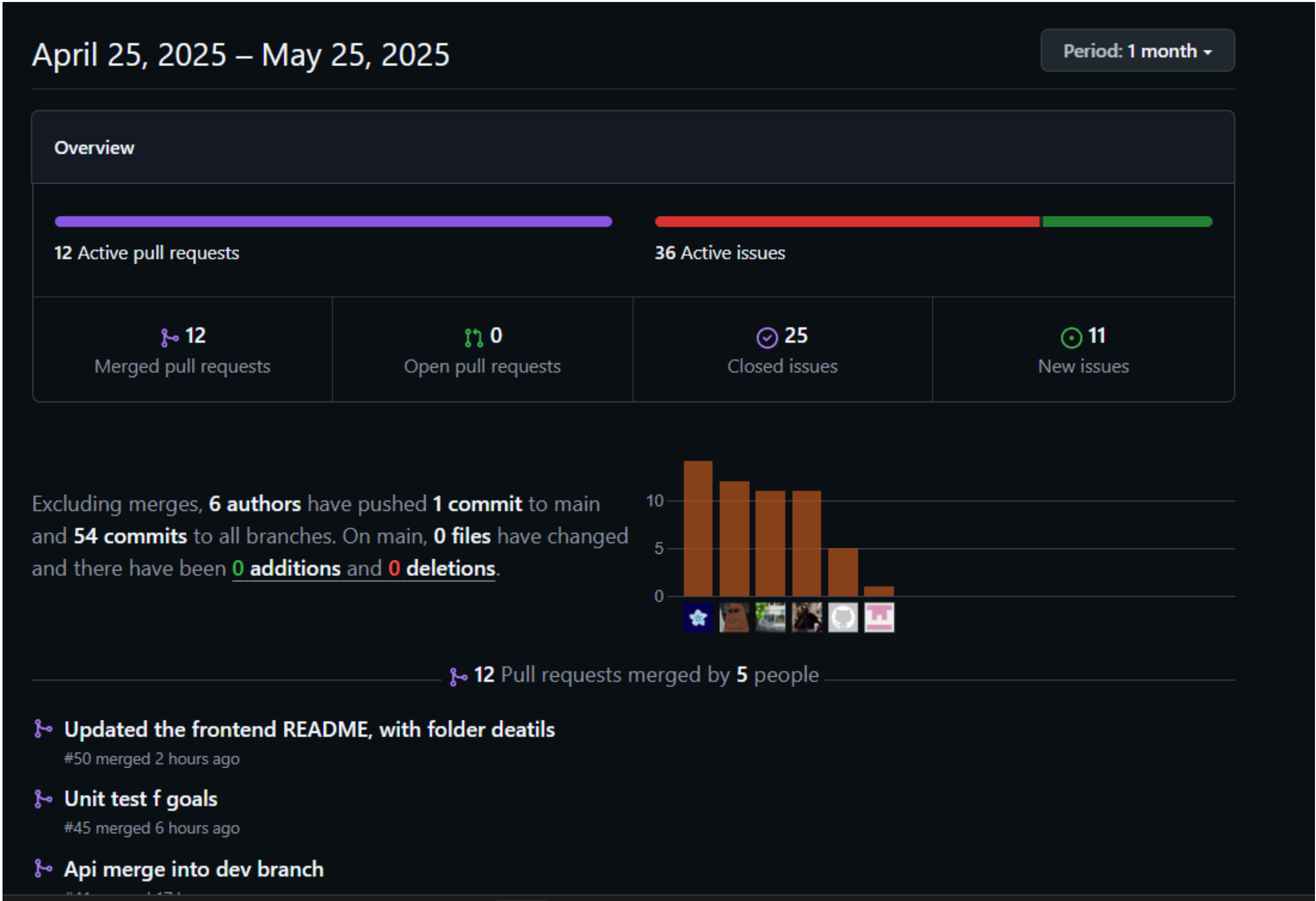


CI/CD PIPELINE

CI/CD PIPELINE

UNIT TESTS

GROUP CONSISTENCY



GROUP CONSISTENCY

Gamified Finance Project

Add status

Backlog

Team capacity

Current iteration

Roadmap

My items

+ New view

Filter by keyword or by field

Todo

4 / 5

Estimate: 0

This item hasn't been started

Gamified-Financial-Visualizer #42

API unit test to be done

Gamified-Financial-Visualizer #49

Implement SQL query to get upcoming recurring transactions

Gamified-Financial-Visualizer #36

Finish Unit Testing

Gamified-Financial-Visualizer #33

Transaction endpoints first commit

+ Add item

In Progress

4 / 5

Estimate: 0

This is actively being worked on

Gamified-Financial-Visualizer #7

Link daemon to project API

P0

L

Gamified-Financial-Visualizer #44

Add automation for unit testing

Gamified-Financial-Visualizer #43

Clean up backend unit testing warnings

Gamified-Financial-Visualizer #47

Complete unit tests for community page

+ Add item

On Hold

1

Estimate: 0

This is on hold for the current iteration.

Gamified-Financial-Visualizer #23

Fix styling issue on community page

+ Add item

Done

35

Estimate: 0

This has been completed

Gamified-Financial-Visualizer #46

Complete Unit test for goals page

Gamified-Financial-Visualizer #6

Populate and create mock data

Gamified-Financial-Visualizer #8

Create register API endpoint

Gamified-Financial-Visualizer #2

Unit test with daemon and database

Gamified-Financial-Visualizer #26

Fix missing view page in goals

+ Add item

SCRUM FRAMEWORK



GITHUB STRATEGY

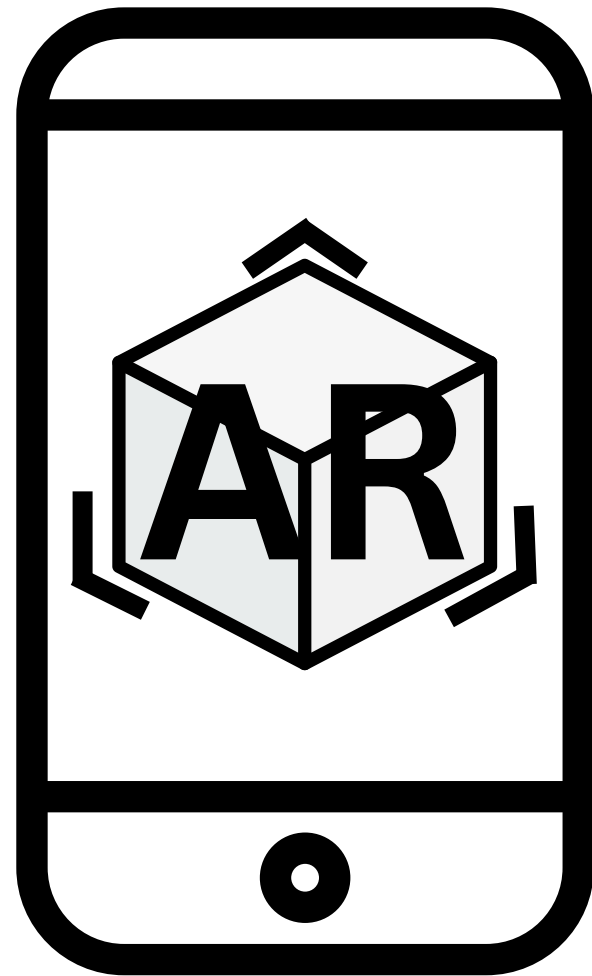
Git Flow Branching Strategy

- All code in the main will be production-ready.
- New branches will be branched from the development branch.
- Subsystem branches will be based off the development branch
- New branches will be given a descriptive name of what the branch will focus on or the feature that will be added in that branch.
- Code in development will be reviewed and tested before merging periodically and continuously into 'main'.
- Critical issues and changes will be committed directly to the development branch.
- Low priority bugs will be addressed in feature branches.

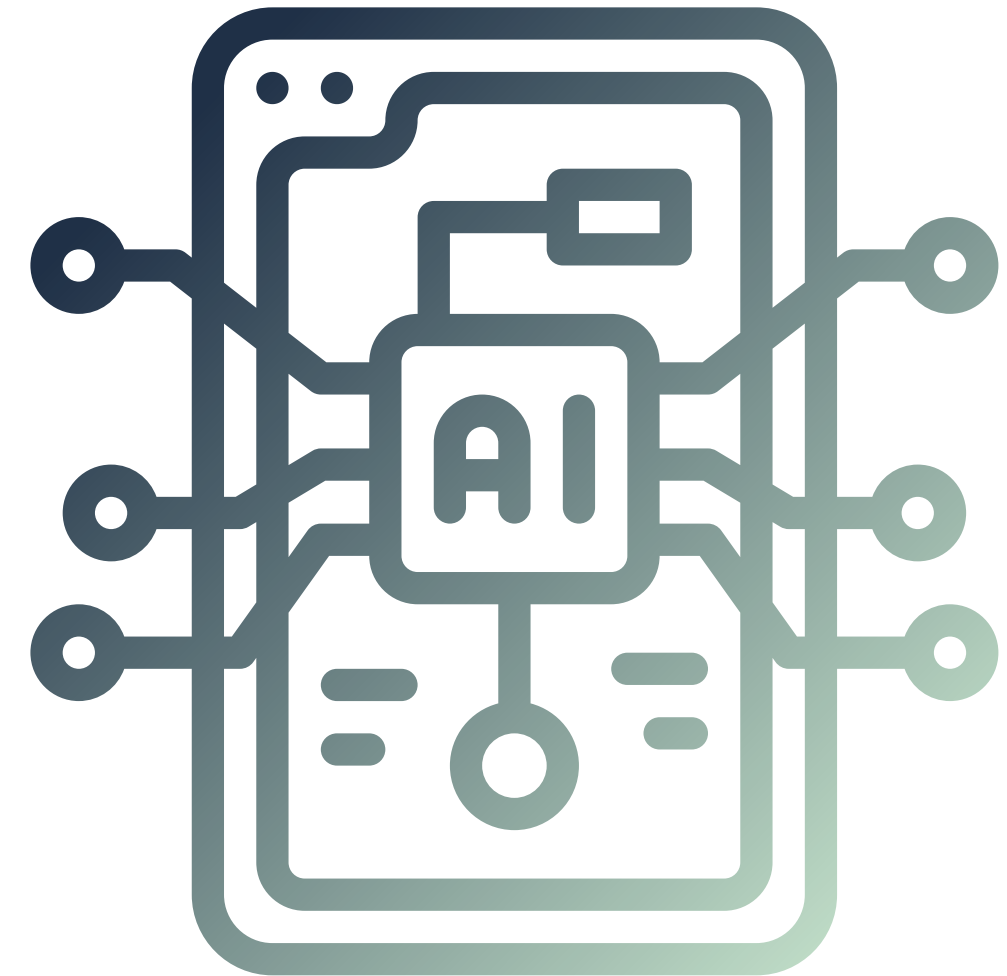
LIVE DEMO

Live Demo

WHAT'S NEXT



AR and AI





Thank You.



Capstone 2025