

SYNAPSE



MEET THE TEAM

Manasvith

Backend

Anoohya

Frontend

Bhargavi

Database

Ananya

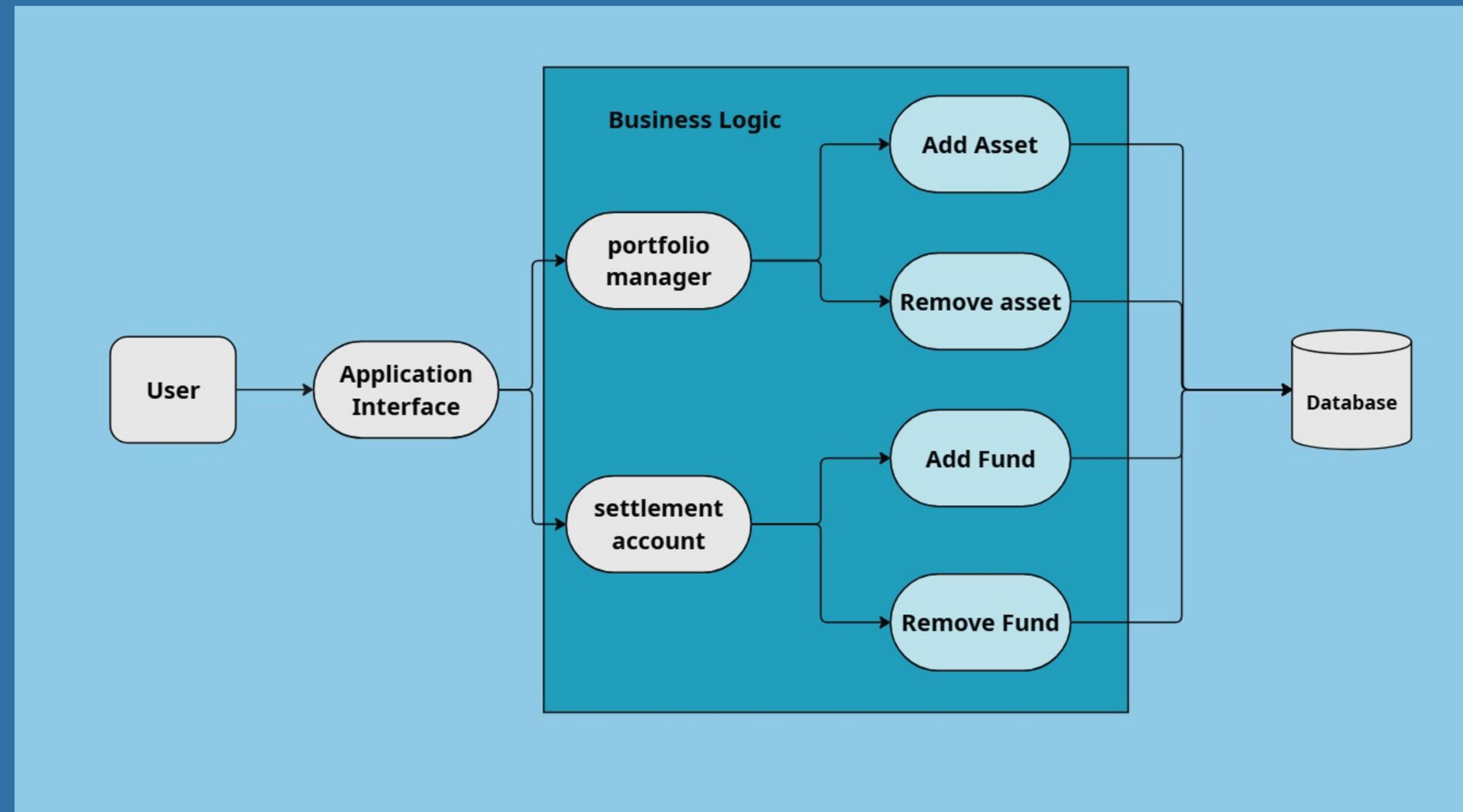
Testing

PROJECT GOALS

The aim of the project is to create a Portfolio Management Application with three core objectives

- 1 Streamlined Portfolio and Fund Management
- 2 Empower Data-Driven Decisions
- 3 Deliver a Modern, User-Centric Interface

ARCHITECTURE



FRONTEND

Investment Dashboard

Manage your stock portfolio and settlement account with ease.



Portfolio Manager

Track and manage your stock holdings, view transactions, and analyze portfolio distribution.

[Go to Portfolio Manager](#)



Settlement Account

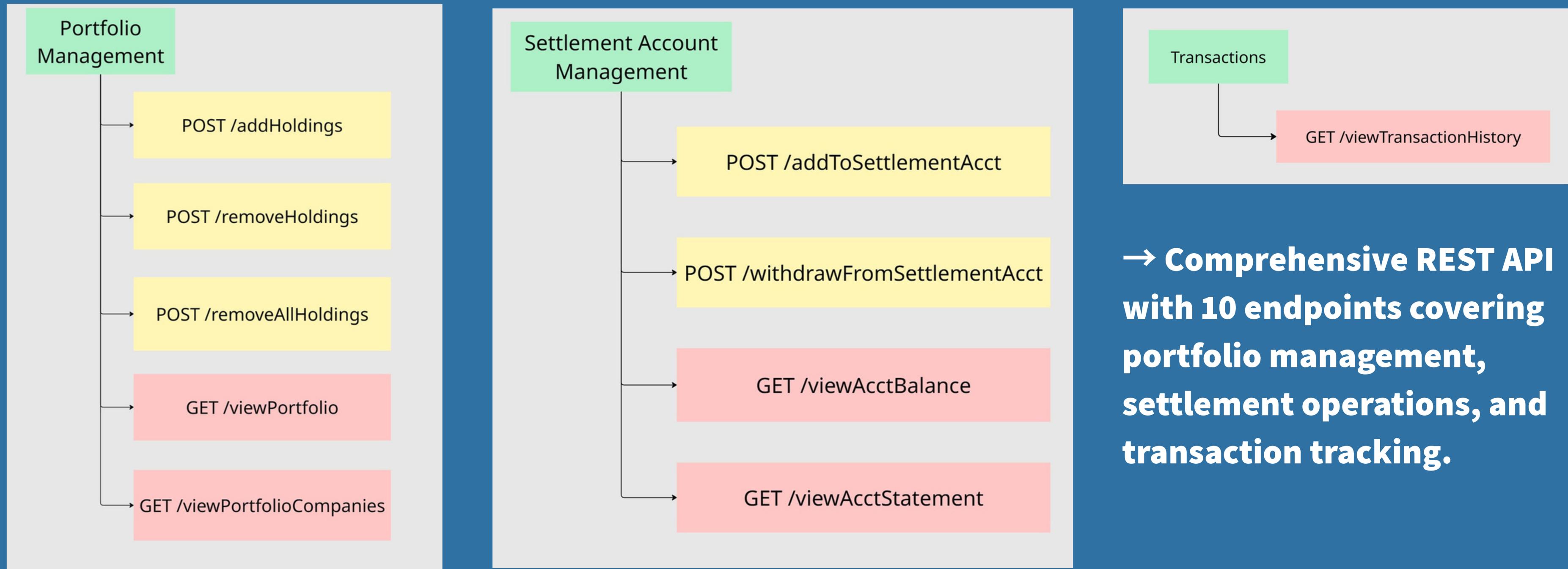
Manage funds, view account balance, and track transaction history.

[Go to Settlement Account](#)

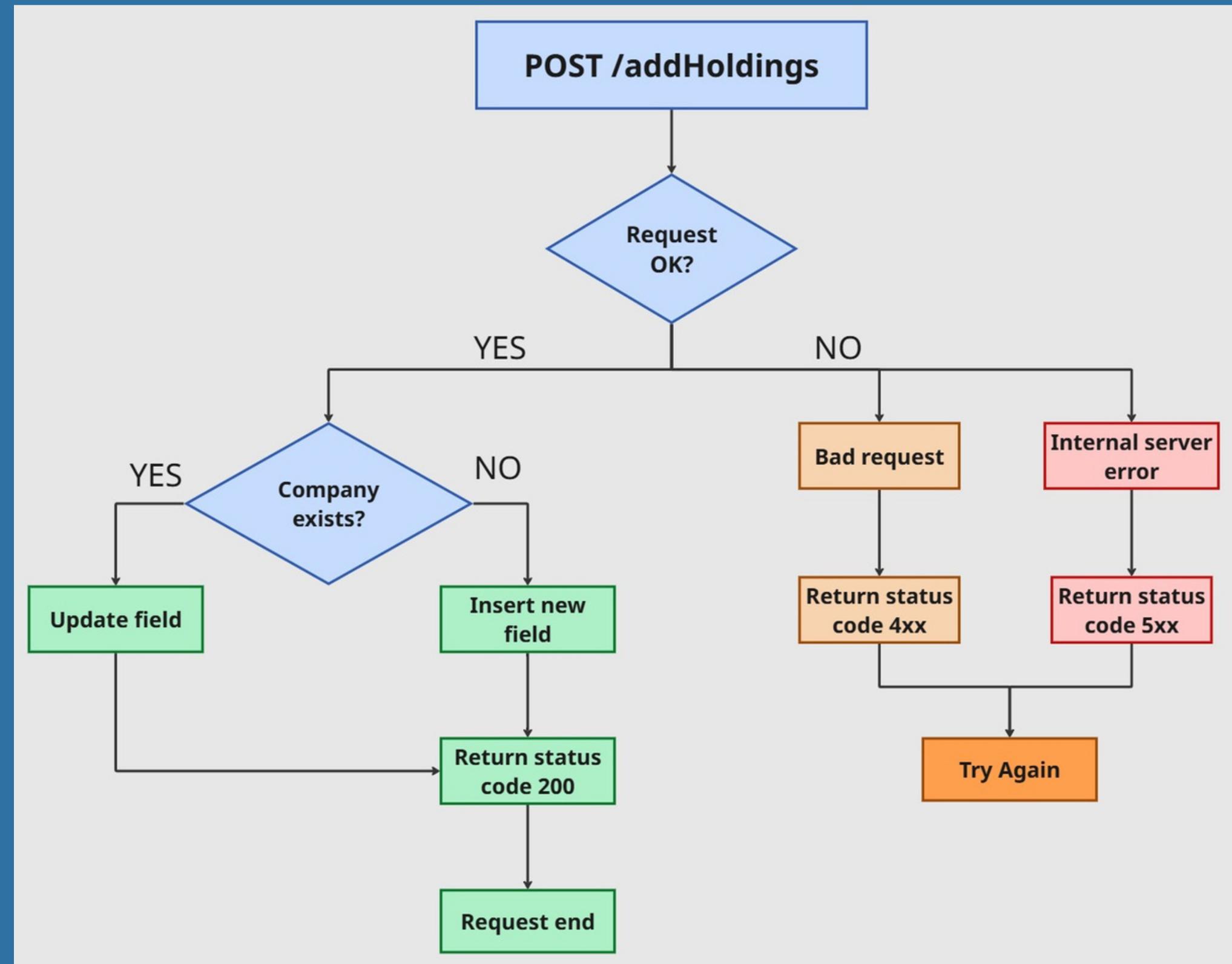
DATABASE

Portfolio	Transactions	Settlement_Account
Company varchar	id integer	id integer
Quantity integer	company varchar	action varchar
avg_price float	action varchar	transaction_amount float
time_stamp timestamp	price float	current_balance float
	quantity integer	time_stamp timestamp
	time_stamp timestamp	

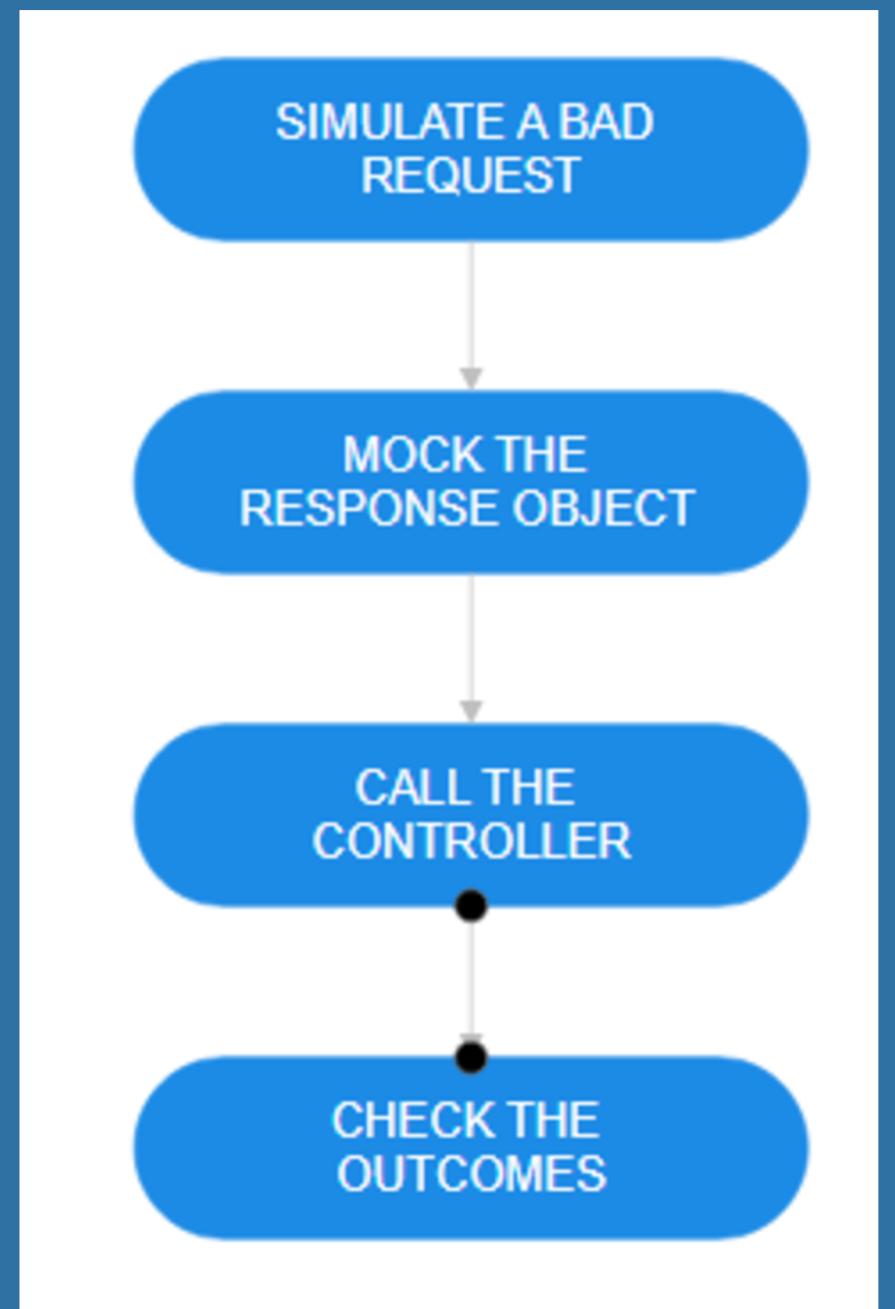
BACKEND



API FLOW



UNIT TESTING



JS addHoldingsController.test.js
JS addToSettlementAcctController.test.js
JS removeAllHoldingsController.test.js
JS removeHoldingsController.test.js
JS viewPortfolioController.test.js
JS viewSettlementAccountController.test.js
JS viewTransactionHistoryController.test.js
JS withdrawFromSettlementAcctController.test.js

PROJECT MANAGEMENT

Shared Docs



A screenshot of a Notion shared document titled "Engineering Docs". The interface shows a table with columns for Author, Status, Category, and Summary. The first row is for "Tech Spec" and the second for "Architecture". Both rows have "Published" status and "Stark" as the author. The "Tech Spec" summary includes detailed API documentation. The "Architecture" summary describes the project database structure.

Task Management



A screenshot of a Jira Software task board titled "Team Synapse". The board is divided into four columns: TO DO, IN PROGRESS, IN REVIEW, and DONE. Tasks include UI Design, UI Implementation, Testing - Frontend, API Documentation, PPT, User stories, Database Design, DB Specification Document, Testing - Backend, and Business logic design.

Code Hosting & CI



A screenshot of a GitHub repository named "Synapse". The interface shows the master branch with 41 commits from "Manasvith". Commits include updates to README.md, controllers, README.md, db.js, package-lock.json, package.json, and server.js. The repository is described as "Portfolio Management System - Backend".

DEMO

TECH STACK

Frontend

- Html
- CSS
- JS
- Bootstrap

Backend

- Express
- Node js

Database

MySQL

Testing

Jest

CONCLUSION

This Portfolio Manager project involved designing and developing a RESTful backend system to manage and monitor financial portfolios. The application supports core operations such as adding, removing assets, viewing transaction history, and managing a settlement account all with persistent storage integration.



**THANK
YOU**

