

CS 242 Final Project Proposal Template

Stock tracking app

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1. Abstract

1.1. Project Purpose

Track a portfolio of stocks

1.2. Background/Motivation

Write a full-stack application

2. Technical Specifications

2.1. Platform: Desktop/web

2.2. Programming Languages: python

2.3. Stylistic Conventions: snake_case

2.4. SDK: Flask

2.5. IDE: PyCharm

2.6. Tools/Interfaces:

2.7. Target Audience: People who follow stocks

3. Functional Specifications

3.1. Features

Buy stocks

View portfolio value

Sell stocks

Add value to account

3.2. Scope of project

Will not be real stocks

4. Timeline:

4.1. Week 1

4.1.1. Create DB schema to store name, account value, stocks held

4.1.2. Hashing + salting passwords

4.1.3. Learn flask

4.1.4. Begin writing API

4.2. Week 2

Finish writing API

Unit tests for API and DB

4.3. Week 3

Begin writing frontend that makes API calls

4.4. Week 4

Finish frontend, polish UI

Unit tests for UI actions

5. Future Enhancements

Possibly connect to actual companies' APIs and use real account info