

# IT452 Final Project Proposal

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## 1 Project Specification

For the final project I plan on creating an online 'virtual' stock portfolio where users sign up and receive a starting amount of cash. The user will then be able to look up stocks to see price history and buy them. I will use a mysql database to store pertinent information for the users. I will also create a discussion board where users can chat.

## 2 Weekly Breakdown

- Milestone 1: I will find a bootstrap template for the project I think will be useful then start to format it towards what I am looking for. I will set up the file names for navigation on the page so I have a template for the functionality that I will be adding. I will also look into options for external APIs that can be used for stock information. When I have this information I will also create a tentative model of what information I want to store in the database. I will also set up a gitlab repo in order to track revisions that are made.
- Milestone 2: I will create a search page where the user can look up the stocks they want to add to their portfolio. The page will check to make sure they have sufficient funds.
- Milestone 3: I will create a trends page where the user can see how their portfolio has grown/declined over time. I haven't decided what scope yet (week, months, something adjustable) but I will see what information I can be provided from the APIs. I will also create a discussion board for members to contact each other.
- Final Deadline: I will use this week to finalize all of the work and make sure all parts mesh together. I will also create some admin functionality to remove users/deposit money into people's accounts.

### **3 Project Flow**

Here is how I see the architecture of the site looking:

- login - home: shows current portfolio information, data trends
- home - buy/sell stock: allows user to buy/sell for their portfolio
- home - chat board: allows users to communicate to each other
- home - logout: logs user out
- home - admin login: gives admin access to remove users or make more deposits

### **4 Testing Plan**

I will test each part's functionality by creating multiple users for the system and progressively making sure they are able to login properly and access each part error free.

### **5 Documentation Plan**

I will include thorough commenting for my customer to see how my project is coming together as well as LCDR Leavitt.

### **6 Revision Control Plan**

I will create a gitlab repo in order to track revisions on each part. The project can be accessed here: <https://gitlab.usna.edu/m202484/lab08>.

### **7 Customer**

My customer will be MIDN Danny Kim. I will ask for feedback at each milestone and suggestions moving forward. I will ask him to test each portion to look for errors and user friendly functionality.