

### ITP 303 Final Project Summary

**INSTRUCTIONS:** Type out your answer directly below each question. If a question does not apply to your project, type in N/A. When finished, save this file as a PDF and upload it to the itpwebdev server via FileZilla. Then, add a link to this PDF in your student\_page.html. Label it “Final Project Summary.”

#### **BASICS**

**Your name?**

Charles Hill

**What is the topic of your final project?**

Virtual stock portfolio

**Who is the intended audience?**

Those interested in trading stocks and finance, and the competitive nature of these activities.

**Provide a brief summary of the functionalities of your project.**

The main function of my project is to provide a platform for looking up stock information and creating a virtual portfolio. To accomplish this, my project has a sign-in/create account feature, a database that stores user accounts and portfolios, and access to Finnhub’s API which is used for looking up stocks and displaying their information. My platform does not yet allow for the selling of virtual stocks but it can keep track of the value of users’ portfolios (I was overly ambitious with my original plan to do this).

#### **FRONT-END**

**What is the total page count?**

7—Home, Portfolio, Global, Create Account, Sign-in, Register, Results

**List the names of any external stylesheet used in this project below.**

Style.css

**List any CSS libraries/frameworks used in this project (e.g. Bootstrap) below.**

Bootstrap

**List any JavaScript libraries/frameworks used in this project below.**

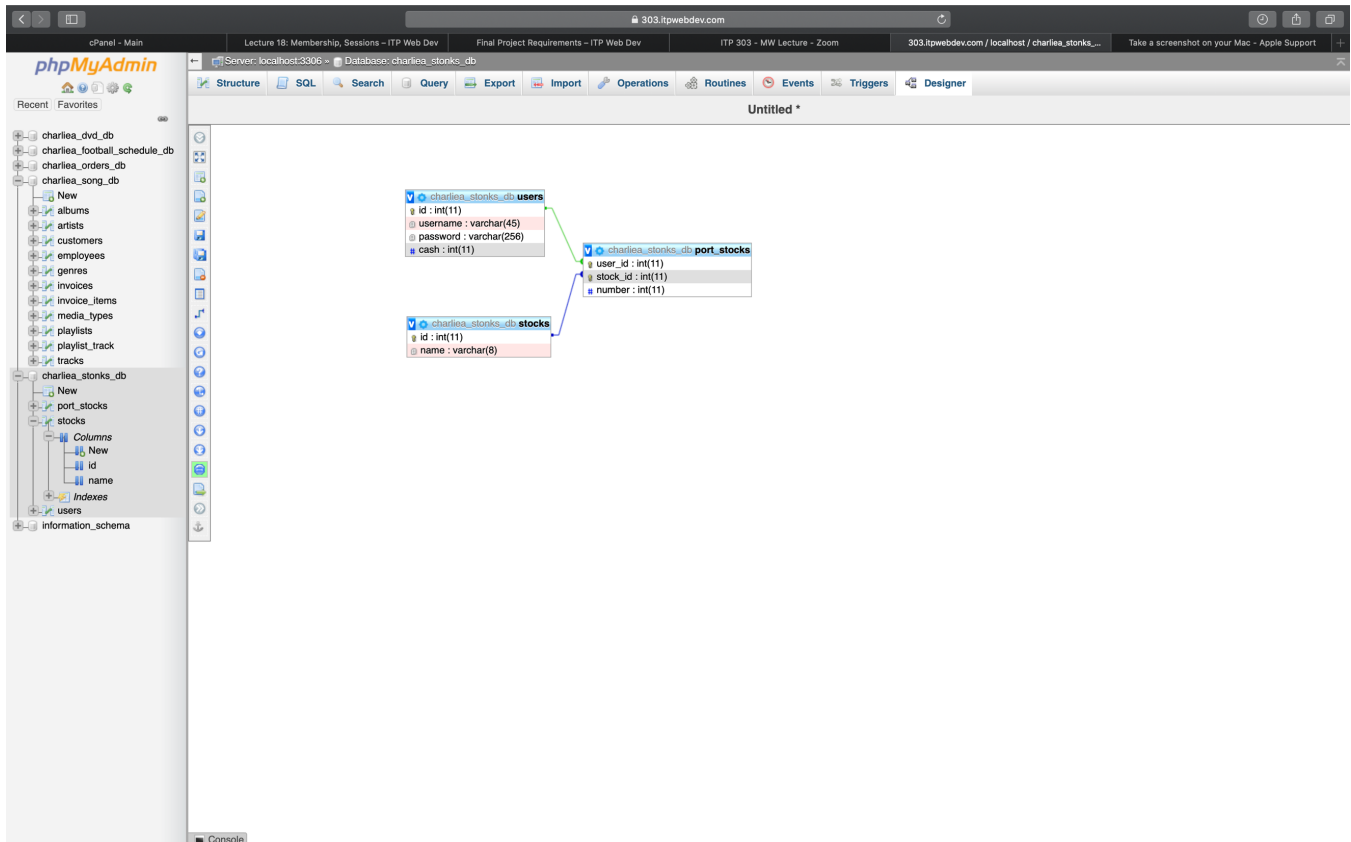
None

**How does your project meet the Interactivity requirement?**

I used javascript event listeners for my nav bar, specifically for hovering over the buttons.

#### **BACK-END**

Attach a screenshot of the final database diagram (just the diagram, do not include any records) below.



**Where in your project do you insert a record to the database (the ‘C’ in CRUD)?**

When users register, their information is added to the “users” table. When a user buys shares, the stock/number of shares are added to the “port\_stocks” table.

**Where in your project do you search and display record(s) from the database (the ‘R’ in CRUD)?**

When a user searches for stocks on the “portfolio.php” page.

**Where in your project do you update and existing record(s) the database (the ‘U’ in CRUD)?**

If a user tries to buy shares of a stock they already own, the table storing this stock’s shares is updated. This can be found in “portfolio.php”.

**Where in your project do you delete existing record(s) from the database (the ‘D’ in CRUD)?**

When a user “sells” (at this point just removes from portfolio/DB) their shares.

### MISC

**What two “extra” requirements did you implement and where can they be found?**

## INFORMATION TECHNOLOGY PROGRAM

1. I implemented session/login and used session to store the stock being bought from the results page (fitting the “store something other than login credentials” requirement.
2. I used a RESTful API (Finnhub) for a significant portion of my project.

**If you used any APIs or JS plugins/frameworks as one of the extra requirements, list the name and a link to their documentation.**

Finnhub: <https://finnhub.io/docs/api>

**If your project requires any admin credentials (i.e. only admin users can access a certain page), list the credentials below.**

**No admin but users must create an account for most of the site’s functions.**

**Provide any other information that you think the grader/instructor should know when grading your final project below.**

I have not yet added functionality to keep track of the value of users’ portfolios, but even without this feature my project fits the requirements in terms of frontend/backend, CRUD, page count, etc.