Plutus

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Demonstration:

- **Friday, 11/19/2020 at 3:30 PM MDT**
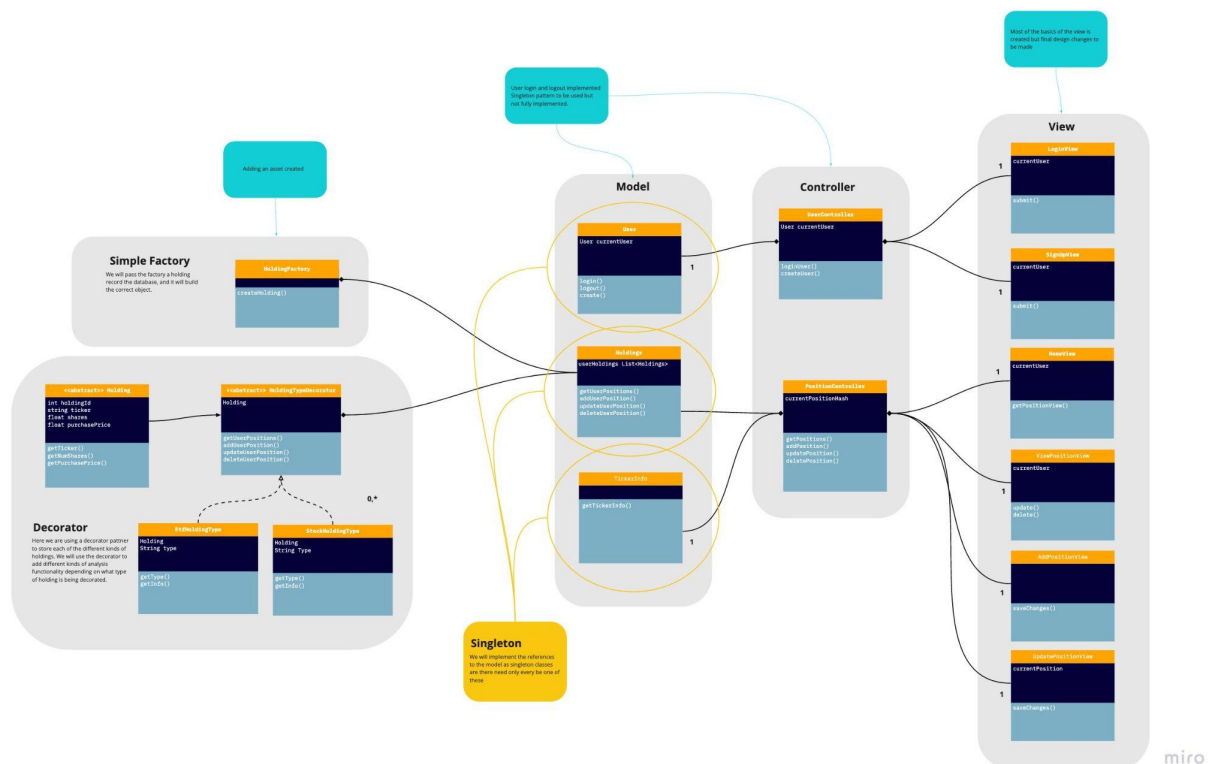- **Zoom [link here!](#)**

Status Summary

We have completed the basics for login and the functionality to add stocks to the portfolio. For the following week we are working on other functionalities such as update and display positions for a user. It took us a lot of time to get up and running with the development environments but we are feeling confident with our ability to implement the features now that we are well underway with the development process/environment. We are still working on applying the design patterns into the code as of right now we have more of the front end and the patterns will be applied on the backend.

Lucas worked mostly on the front-end of the project as well as the connection with the database to authenticate logins as well as confirm the addition of different positions to a user's portfolio. Hyden worked mostly on fixing bugs and on API calls to retrieve information on a certain asset. Felipe worked mostly on the front-end and edge cases on authentication of users.

Our initial approach still stands for this project and we plan on following the diagrams and previous documentation to implement patterns and the UI following the prototype. We intend to implement all the use cases initially proposed on project 5 and so far all the issues we encountered were solved successfully. At first we had problems with running the program on all devices and connecting the backend to the front-end but currently all these functionalities are working properly.

Most of our code as of right now is focused on the UI and the database so not all design patterns have been implemented and they will come in handy on this next step as we build the backend and integrate the entire project.

Class Diagram

Full resolution diagram link

Plan For Next Iteration

We are around 50% of our project's completion having implemented the logic for login and adding position, as well as the connection to the database, authentication, and currently working on the API call to retrieve the current value of a stock. Some items that we still have to work on are:

- Updating position
- Delete user position
- Displaying position

- Display chart
- Fetch update prices from the UI
- UI/UX design

For the next iteration and the final deliverable of the project we plan to have a fully functional application that will implement the design patterns mentioned on the class diagram and be able to authenticate users, register/update/delete assets, as well as retrieve information making use of an API to register and display the user's profit/loss on each asset. We will have integration through firebase which handles the database and user authentication.