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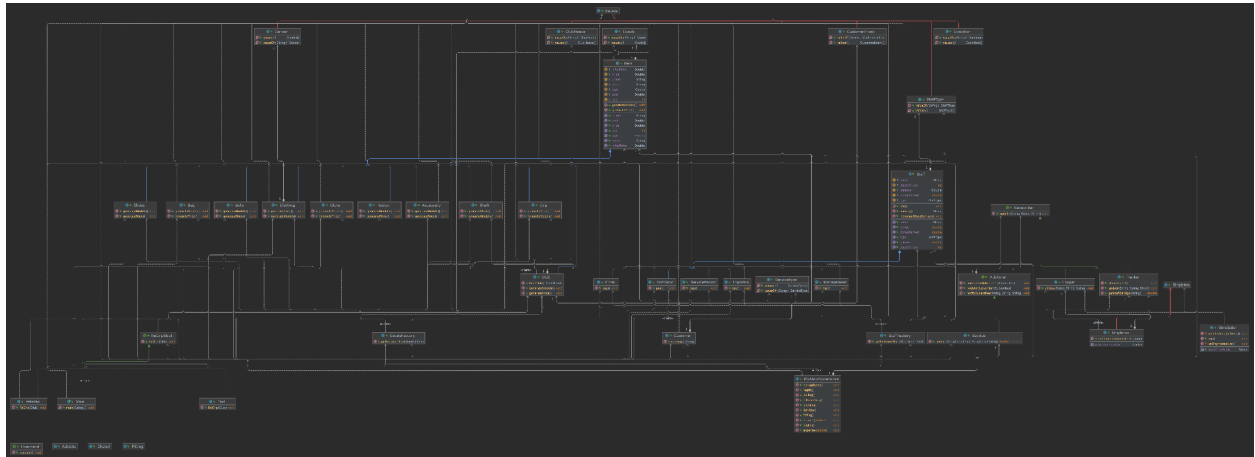
Rayner Susanto

Project 6

Status Summary

Currently, we have focused most of our efforts in developing a working simulation for our Store. Our objective is to have a working simulation which then can be translated into manual decisions / choices such as virtual map finding and adding stock manually through manager mode. In our case, the working simulation model has told us all the classes that will be required for us to move forward to the next step. In the simulation, we were able to implement all potential employees working at the store while also all items that can be sold or serviced. We've implemented activities for the simulation such as starting the day, selling golf tools, servicing / regripping clubs, and closing down the store for the day. In addition, we've implemented some basic idea on how to do manual manager mode through activity. We've implemented some basic patterns that we have learned such as the factory pattern to produce employees and inventory. Singleton pattern to be implemented on the store and loggers so we can track the changes. As well decorators in order to provide a similar experience to changing / customizing clubs for golf enthusiasts.

Class Diagram



<https://github.com/parthshrestha/PGATourSuperStore/blob/main/pgaProjectUMLDiagram.png>

Plan for Next Iteration

Our next plan is to begin focusing on creating a virtual map that can add item locations and create a search path algorithm. In addition, a working UI to support these tools so that it may be more interactive for future users without looking through CLI. Our plan is to make a 2d array which will identify objectives on where the items are located while using their profit and distance as their heuristic in order to prioritize which items to take first during an online order. With the UI, we're planning to implement similar to a dashboard where managers are able to login to the app and plan which employee should restock which inventory items. They would also be able to get information regarding sales that has happened throughout the day and logs that has happened in the store.