

## Project 6 Deliverables

Your deliverable for Project 6 is a combination of a demonstration to class staff and a link to your GitHub repo for the project deliverables. You must include a PDF document in your repo – clearly labeled “Project 6 Update.pdf” - that contains the Status Summary, Class Diagram, and Plan listed below:

### Status Summary

Include these sections in your status update PDF labeled “Project 6 Update.pdf”:

- Please include the names of all team members and the title of the project in the PDF!
- Work Done: Written description of the work done in the first week of your project and (in the case of multi-person teams) the breakdown of work across team members.
- Changes or Issues Encountered: Has anything changed so far in your approach to the project from the initial design in Project 5?
- Patterns: Now that you have more of your system implemented, please describe the use of design patterns so far in your prototype and how they are helping you or your design.

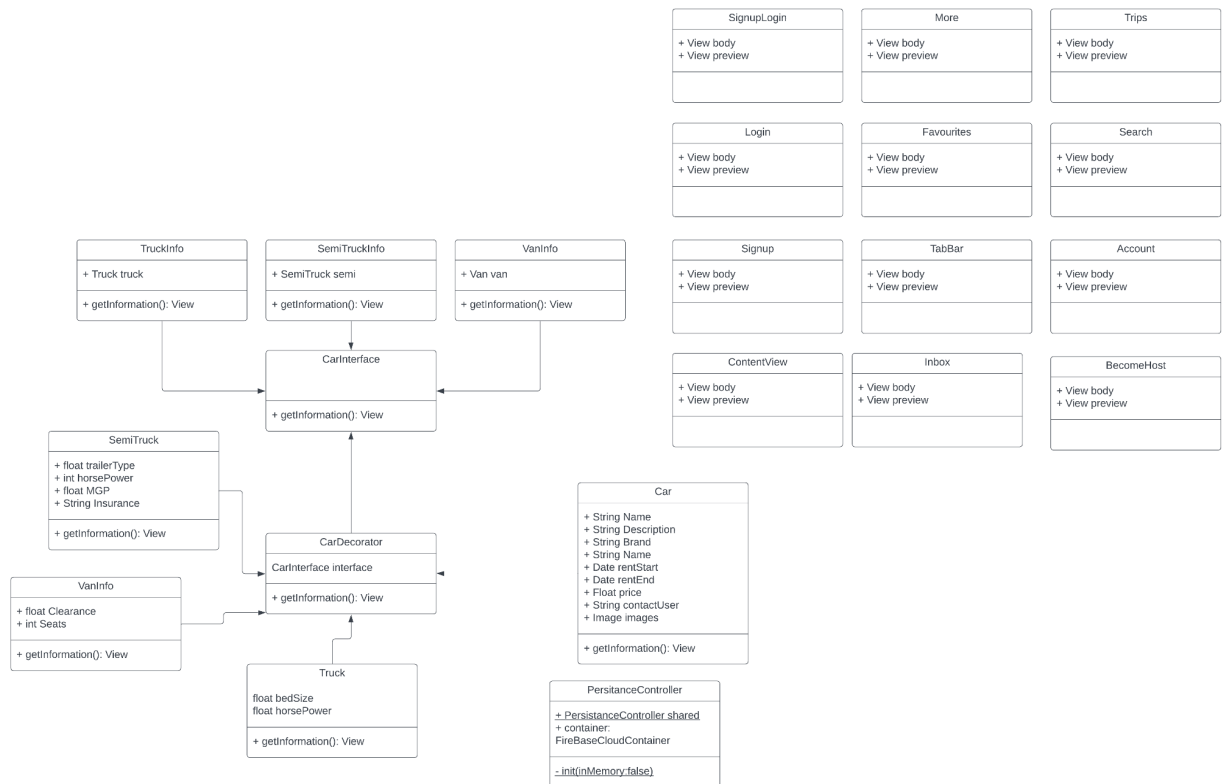
**Names:** Carte Andrew, David Farrow

**Work Done:** Prototyped UI for application and built experimental core data backend. We are using Xcode to make the app and have created a series of views responsible for housing different data users will be shown. These are linked together through the buttons to allow users to navigate through the application intuitively. Along with this we have also prototyped a local backend for the application using core data. This allows us to cache files on the local device when queried from the cloud, store temporary keys for login on startup, and house data updates we want to send to the cloud in a non-volatile temporary location.

**Issues encountered:** Carter was running linux on his computers and did not have access to a mac so he had to spend some time learning how to set up a macOS virtual machine through qemu with kvm. Alamo fire is complex and expensive for the tasks we want to accomplish. We both came into this project with very little knowledge of how to build apps with swift or xCode so it has been a challenge adapting to the syntax. This has made some changes to how our code functions.

**Patterns:** We have implemented singletons, decorators and strategy. Singletons are used for access to not only style and database access but also for data management and manipulation. Decorators are used to modify the contents of a posting and change the card style for the posting in a query. Strategy is used to decide how additional data points will be linked to a given posting.

### Class Diagram



## Plan for Next Iteration

We will need at least one week to finish implementing the design that we presented in Project 5. Our plan to get to the final iteration is to continue implementing our app's features. We plan to have all of the following complete when the overall project is due:

1. All SwiftUI views
2. A user data model
3. Firebase functionality
  - A way to register users
  - A way to upload user data
  - A way to update user data
  - An authentication service
  - A way to fetch/display data
  - Login/ Logout functionality
  - Messaging functionality
4. Implement factory for generating postings