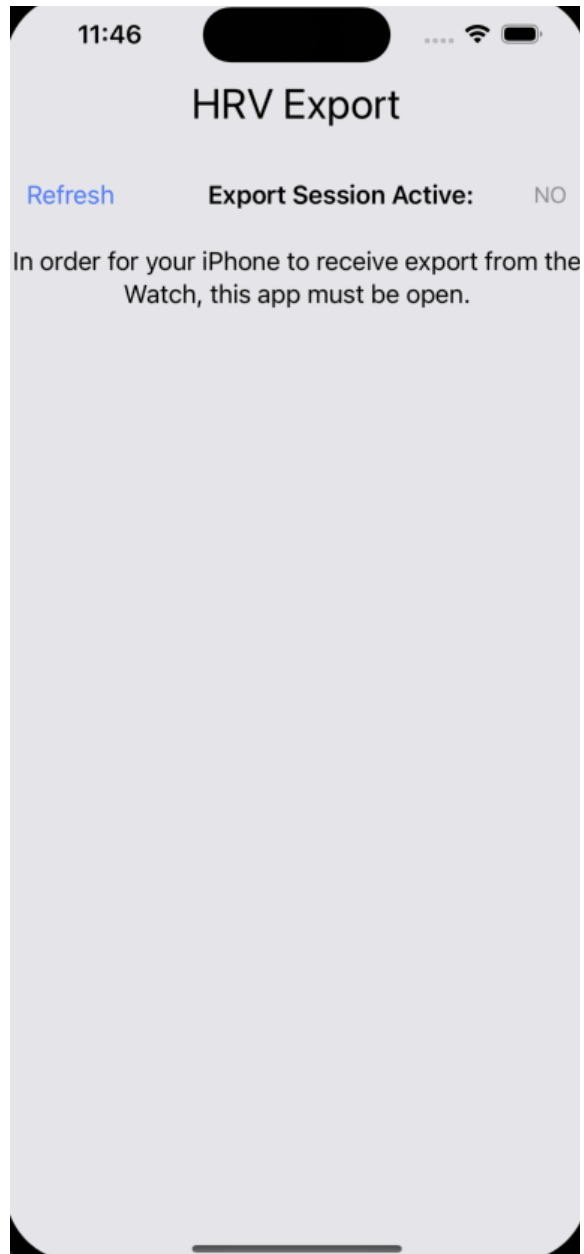


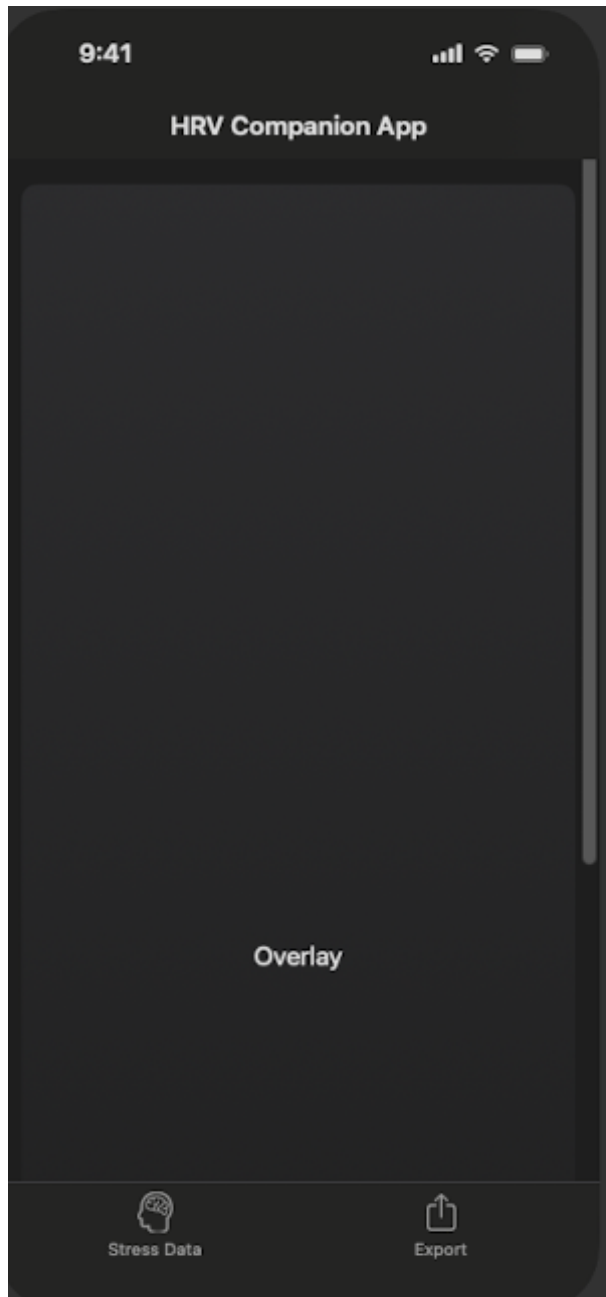
This is a working document that serves to explain the future work that is required as well as assign roles and responsibilities to individuals per the professor's request.

Current UI



Future Work

1. Improve current companion application
 - a. Companion application frame/ home page
 - i. User interface component - First task
(<https://developer.apple.com/design/human-interface-guidelines/platforms/designing-for-ios/>)
 1. Needs to have a home page, a page for export, and a page with data visualization on stress levels (this could be the home page), possibly a page for settings
 2. Step 1 would be to create a wireframe for each page and agree on a design
 3. Step 2 would be to learn more about how to implement
 4. Step 3 would be to implement
 5. Step 4 would be to review the design and merge it into the project
 - ii. Design of the home page



- iii. Back-end component - Second task
 - 1. Needs to have a connection to the watch
 - 2. Needs to have a connection to the health storage to serve as a datastore. Could have export feature continually send data.
- 2. Migrate the work to the companion application (This needs to be created)
 - a. data storage to the iPhone companion application
 - i. User interface component

- ii. Back-end component (data transfer)
 - b. the machine learning model training
 - i. User Interface component
 - ii. Back-end component
 - c. export of dataset
 - i. User interface component
 - ii. Back-end component
- 3. Improve the HRV Threat Detection Algorithm
 - a. Add dynamic epochs
 - b. Add attributes to the training dataset
 - c. Improve the quality of training data through z-transformation
 - d. Tune the hyperparameters