Chapter 1

Application User Interface

In this chapter some of the useful UI features of the application will be discussed.

1.1 Main Layout

The application has three main scenes. One is the home screen which shows buttons to take the user to the other two scenes. It also contains two radio buttons to allow the user to select which hand (left or right) he/she will be testing with the gestures. Figure **??** shows the layout of the home screen.
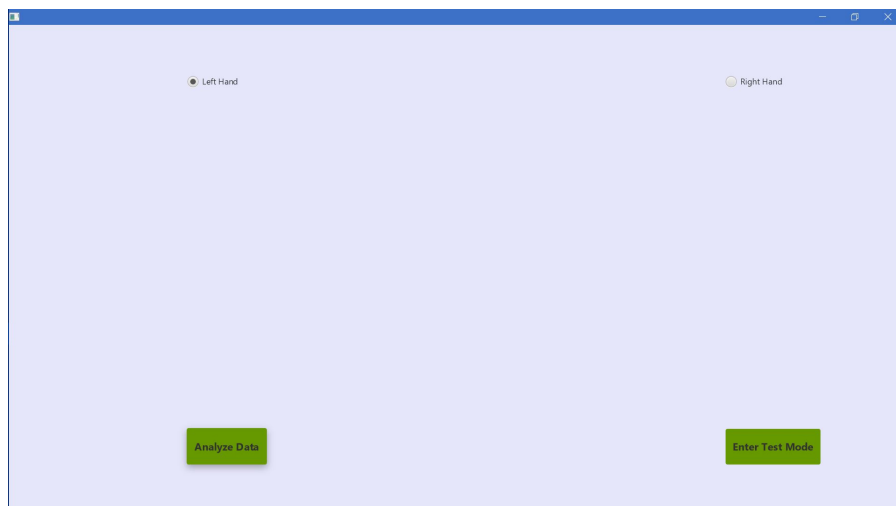

FIGURE 1.1: The scene that the user sees initially when they load the application.

The user can click on the "Enter Test Mode" to go to the scene where data will be collected. However, before the user can go to the data collection scene, they must first select a previously saved user or create a new user. All of the hand gesture data collected will be stored in an appropriately named folder for the user. Therefore, when the user clicks on the "Enter Test Mode" the first thing that comes up is a small pop-up screen that asks whether the user would like to create a new user or select an older user; see Figure 1.2 and Figure 1.3.
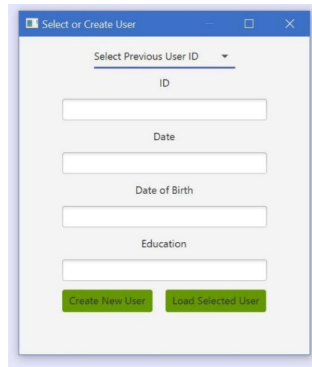
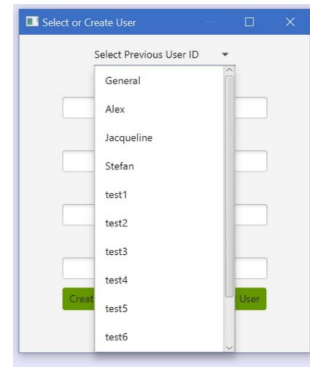FIGURE 1.2: Pop-up window showing options to create or select user.

FIGURE 1.3: Pop-up window showing the previously created users.

which is designed for the user to go through the ten target gestures for the selected hand

The user can click on the "Analyze Data" button to go to the

talk about three scenes and show pics. show what happens where and what the typical user would do. take data and analyze it for problems. and then go fix those problems. also save data to csv. read from csv. say some things will be dicussed in other sections.

1.2   User Specific Data Collection

show the 2 figures. explain why you needed ot make users. meeting with clinicians. working product demonstration. agile. as opposed ot waterfall (this should go in conclusion).

1.3   Visual Rotation of Gesture

same as above.

1.4   Tabular Display of Data

editable picture. show code.

1.5   Writing and Reading from CSV

1.6   Artifacts and Distribution

1.6.1   Leap App Store

1.6.2   IDE Build Process and Batch Script