Description of User Stories and Test Cases

All test cases have been tested through junit and through the emulator. They have all passed.

1. **Sign-up** - We made the sign-up activity to come up the first time someone logs on by creating an if/else statement in the Start up activity java class. The user is able to put in their information in the boxes we made in the sign-up xml file. As long as the user puts in the desired information it will create an account.

   Tests Cases: Tests that were performed on Sign Up were:

   - User clicks on "sign up" button. The name textbox is empty. An error message `"Name is required"` appears next to the name textbox.

   - User clicks on "sign up" button. The username textbox is empty. An error message `"Username must be 6 characters or longer"` appears next to the username textbox.

   - User clicks on "sign up" button. The email textbox is empty. An error message `"Email required"` appears next to the email textbox.

   - User clicks on "sign up" button. The password textbox is empty. An error message `"Password must be at least 8 characters long"` appears next to the password textbox.

   - User clicks on "sign up" button. The text in the username textbox is "bob" . An error message `"Username must be 6 characters or longer"` appears next to the username textbox.

   - User clicks on "sign up" button. The text in the password textbox is "chuchu". An error message `"Password must be at least 8 characters long"` appears next to the password textbox.

   - User clicks on "sign up" button. The text in the email textbox is "allen08gmail.com". Text does not contain an "@". An error message `"Invalid email"` appears next to the email textbox.

   - User clicks on "sign up" button. The text in the password text box is "12345678" and the text in the confirm password textbox is "abcdefgh". They do not match. An error message `"Confirmed Password and Password do not match"` appears next to the confirm password textbox.

- User clicks on the "sign up" button. All text is valid such as Name = "Allen",Username = "allen08"; Email = "allen1231133222@gmail.com"; Password = "12345678"; Confirm Password = "12345678";. A user is created and they are taken to the home screen.

- User clicks on the "Already Have an Account". The user is taken to the "Sign In" screen.

2. **Sign-in** - We made the Login activity so that it will come up after the user has already opened the app once using the same if/else statement. As long as they have entered the correct information then the app should allow them to login.

    Tests Cases:

- User enters `"unregisteredemail@example.com"` which is not registered. They click on "Sign in" button. Email does not match in the system. Toast message appears: `"Account not yet created."`

- User enters `"abcdefgh"`in the password textbox. They click on "Sign in" button. Password does not match in the system. Toast message appears: `Account not yet created.`

- User enters valid information for email and password. User clicks on the "Sign in" button. They are redirected to the home page.

- The user clicks on "Create An Account" button. They are redirected to the "Sign Up " screen.

3. **Password Recovery** - On the login screen we have a button to press incase a user forgets their password. It will take them to a screen that will prompt them to put in their email. Once they enter their email and push the buttons firebase will take their email address and send them an email. The email will have a link for the user to reset their password.

    Tests Cases:

- The user clicks on the "Forget Password" on the Login screen. The Forget Password screen appears.

- The user clicks on "Send Email" button. The text is empty. An error message `"Email required"` appears next to email textbox.

- The user clicks on "Send Email" button. The email is valid. The email is sent. A message "Sent Email" appears.

4. **<u>Recover Email</u>** - On the login screen we have a button to press incase a user has forgotten their email. It will take them to a screen that will ask for their username and a secondary email. After entering the information it will send an email to the secondary email saying what the account email is.

   Tests Cases:

- The user clicks on the 'Forgot Email" button on the Login screen. They are directed to the "Forgot Email" screen.

- The user clicks on "Send Email" button. The username textbox is empty. An error message `"Invalid Username"` appears next to the Username textbox.

- The user clicks on "Send Email" button. The username contains "`allen` ". An error message "`Invalid Username`" appears next to the Username textbox.

- The user clicks on "Send Email" button. The email textbox is empty. An error message `"Invalid Email"` appears next to email textbox

- The user clicks on "Send Email" button. The email textbox contains `"allen08gmail.com"`. It contains not '@'.An error message "`Invalid Email`" appears next to the email textbox.

- The user clicks on "Send Email" button. All text is valid. "Email Sent" appears. An email is sent.

5. **<u>Security Email</u>** - If three failed password attempts occur then the account will be emailed a link to reset their password.

   Test:
- On the Login Screen, user types `mypassword` in the password textbox and hits "Sign in" button. Incorrect! The user types `vcu2019!` in the password textbox and hits "Sign in" button. Incorrect! The user types `helloworld` in the password textbox and hits "Sign In" button. Incorrect! The Forgot Password Screen appears.