Here is the update for our mobile application which is in a different repository. Link for the repository: https://github.com/namnguyen20999/SmartHome. The mobile applications are already complete but the integration of the sensors is still incomplete. Here are the activities you can do in the mobile app.

- **Login Screen** - The login of our mobile application allows user to sign in if they already have an account or instead create a new account by pressing the Create New Account button found in the lower portion of the screen. Users will need to use their email and password to be able to enter the mobile application and access the functionalities and features of the app.
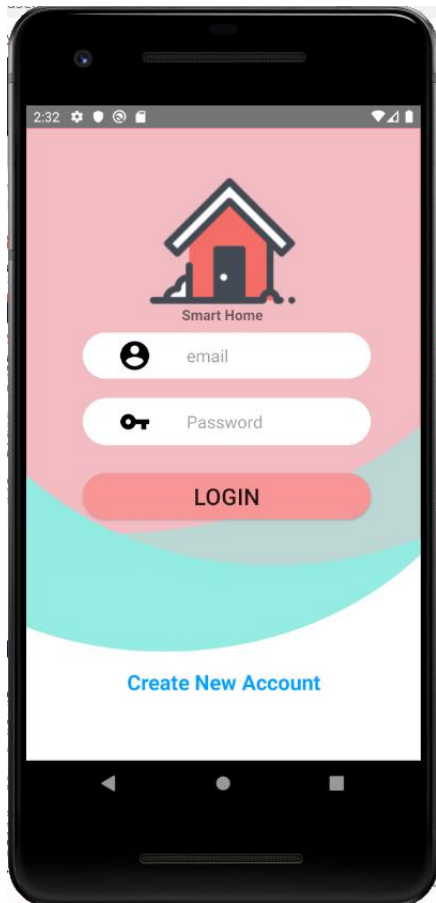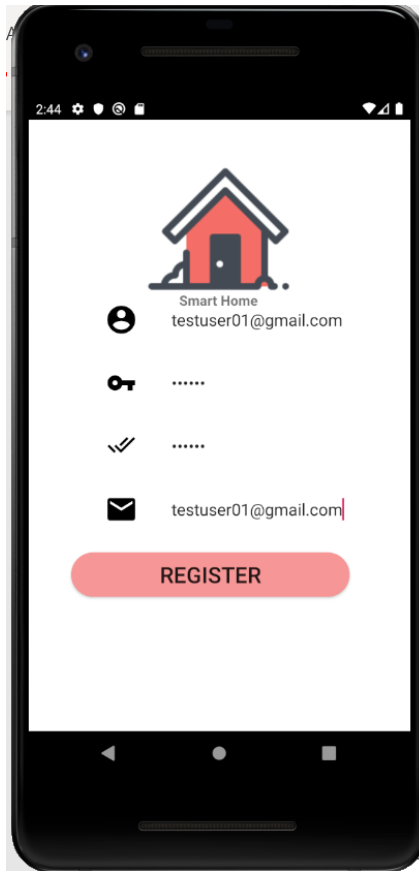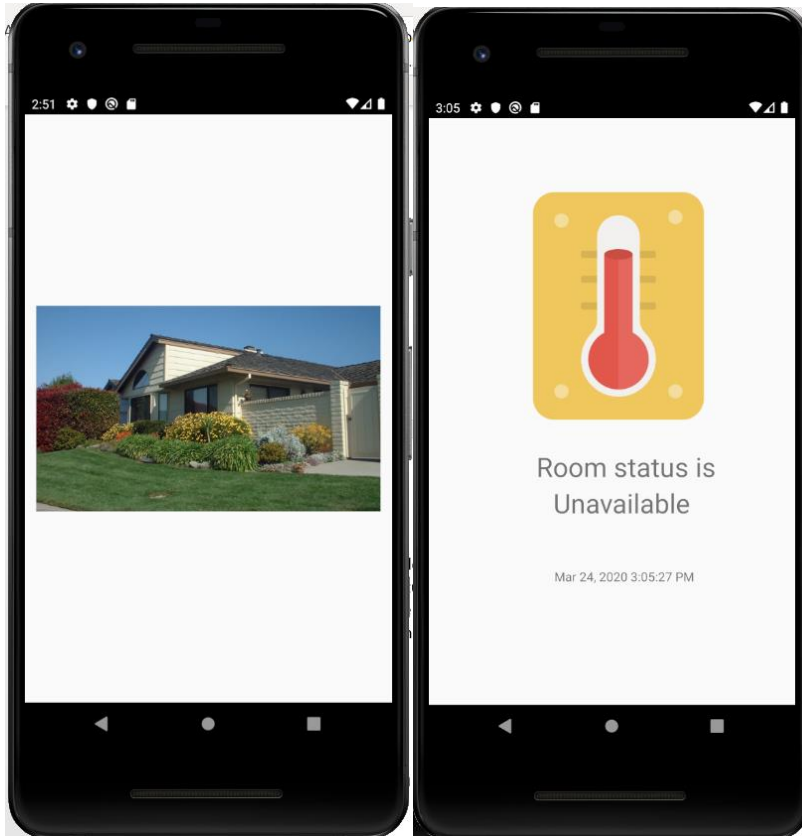


*Figure 1. Login Screen*



*Figure 2. Registration Screen*

- **Data Visualization** – multiple activity screen saves data from the mobile app into the database. One captures the temperature of the sensor and save it into the database. But because we haven't fully integrated the sensors in our mobile application, a mock data was preset in the database and read in the mobile app. Another data we wanted to capture is a image of the house every 15 seconds is sent into the database. This will serve as a simple security system for the house for homeowners will be able to view the state outside the house. Here are some captures from the mobile app:



*Figure 3. Camera capture of the house. Figure 4. Temperature View. Data unavailable*

*Data is preset in the database.*

- **Action Control Activity** – Navigation through the application as well as viewing and performing functionalities are all shown in the home screen of the mobile application. As shown on the capture below, users will be able to navigate through the will with the simple home screen buttons. When selected, users can go control their lights, monitor their house's temperature, and view captures of their house. The simple navigation of our app makes it a very efficient and effective design. Users can now control, using radio buttons, their light, view state of the house, lock or unlock the doors and even view temperature inside the house. Here is the capture of the home screen and all control screens.
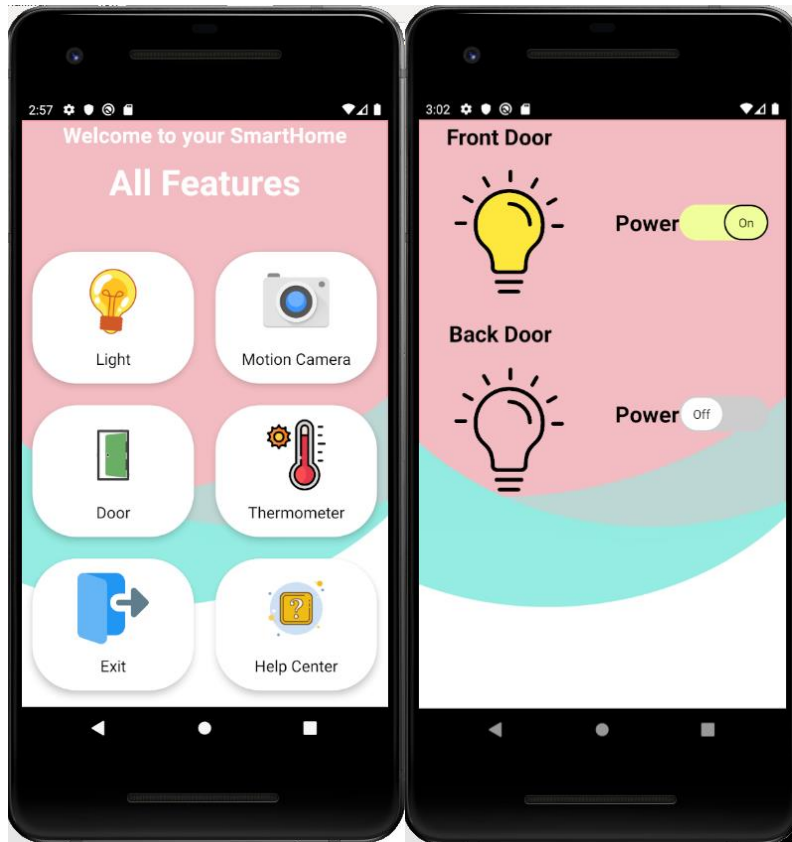


*Figure 5. Navigation Screen/Home Screen Figure 6. Light controls*

Overall, the mobile application is ready for integration with the sensors for we have it laid out as well as set up with a live database connection.