

Lumi Monitor Mobile application status update

Grading for this milestone:

/1 Completed: Survey regarding substantial completion of this term

/1 Participated: Online session

/2 Login activity

/2 Data visualization activity

/2 Action control activity

/1 Modified Code Files in Appendix

/1 Link to Complete Code in Repository

Login Activity

This is the activity that enables our users to login to our app as well as also establish/recover user accounts upon clicking the appropriate buttons.

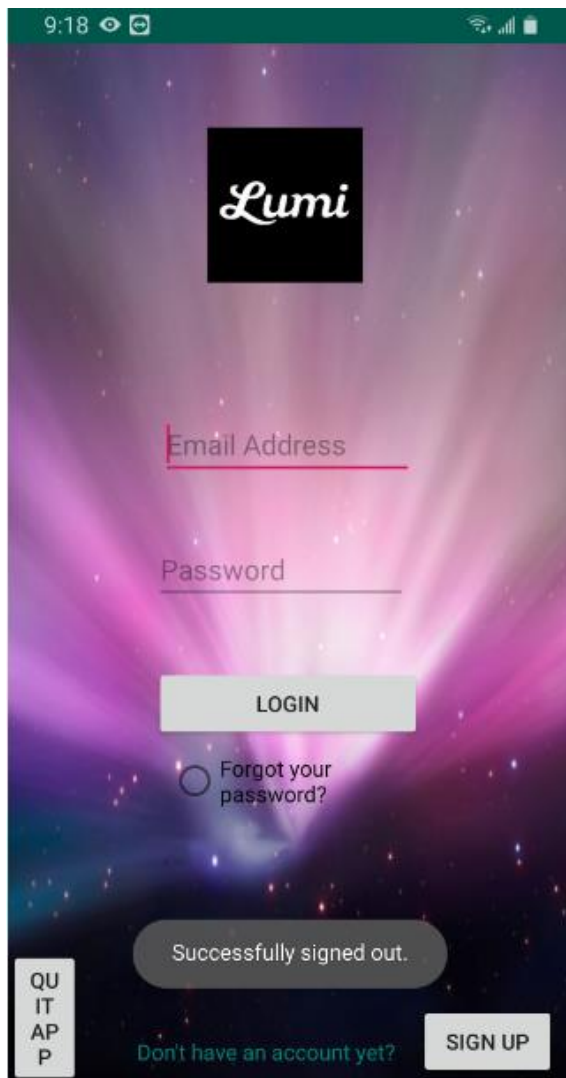


Figure 1. Login Activity

Lumi Monitor Mobile application status update

Data visualization Activity

After logging in to the app, the user is prompted to choose a menu option from a list of options. In the temperature and humidity section of the app, the user is displayed with a graph for both temperature and humidity recorded by the sensor supposedly, however at this point its retrieving values from firebase. The user is also displayed with a timestamp.

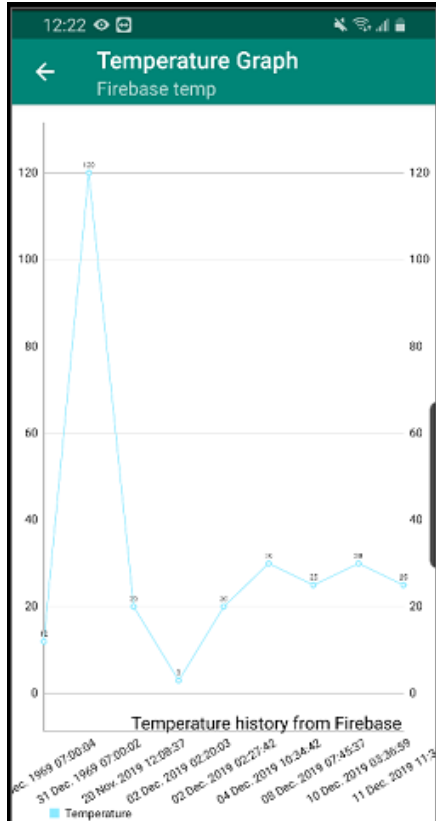


Figure 2. Temperature graph

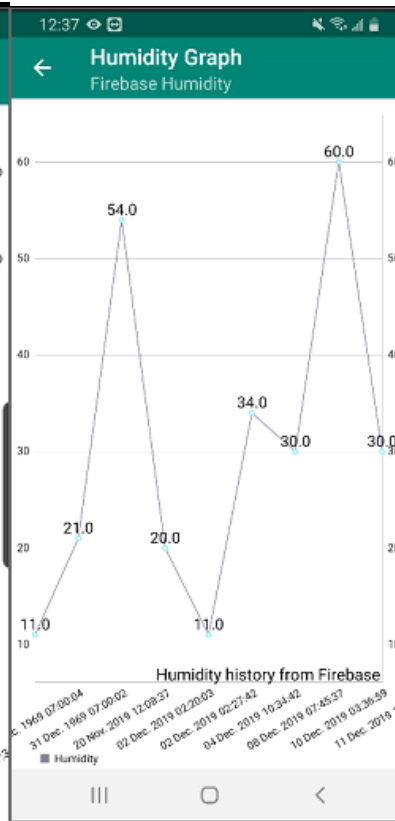


Figure 3. Humidity graph

Lumi Monitor Mobile application status update

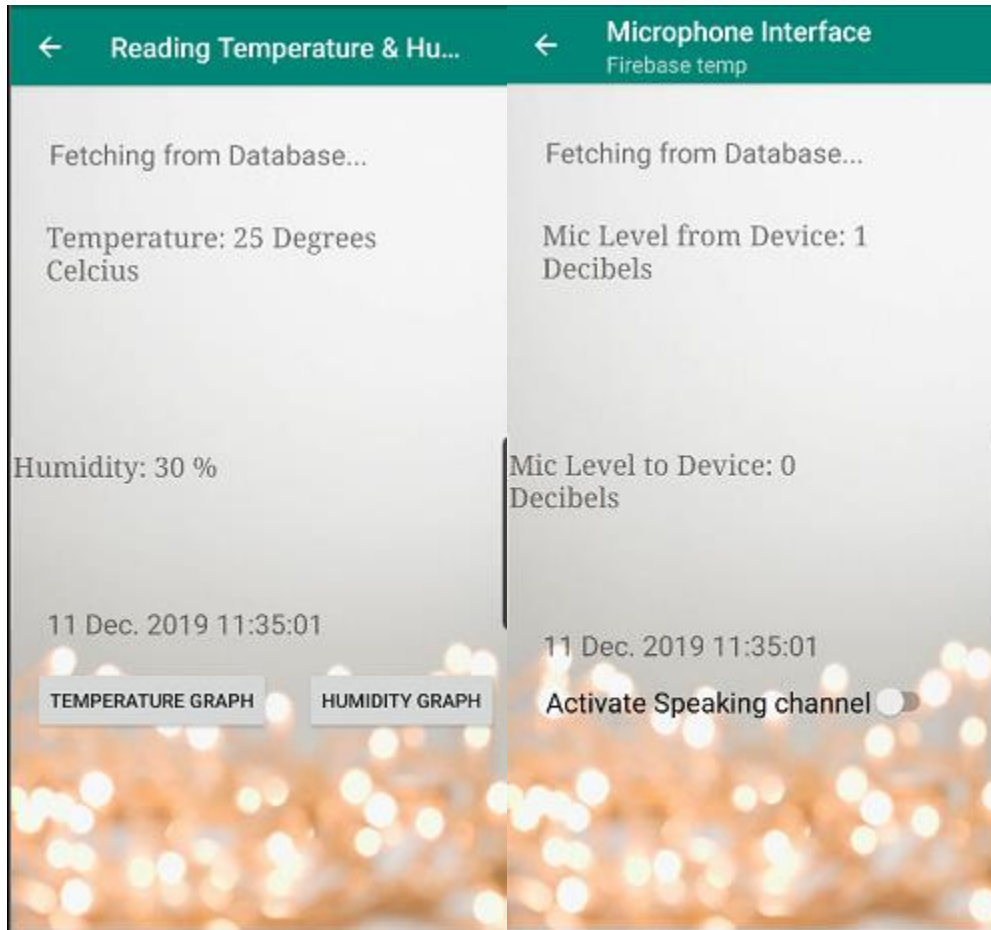


Figure 4. Displaying general readings

Figure 5. Microphone readings

Action control activity

The app allows the user to also activate the microphone in order to talk to the baby by flipping a switch located in the communication options of the app. The user also has the option to customize a bunch of settings for the Neopixel LED strip through the light settings options. Some of the options include turning on the Neopixel manually through a switch and adjusting the brightness with the help of a seek bar.

Lumi Monitor Mobile application status update

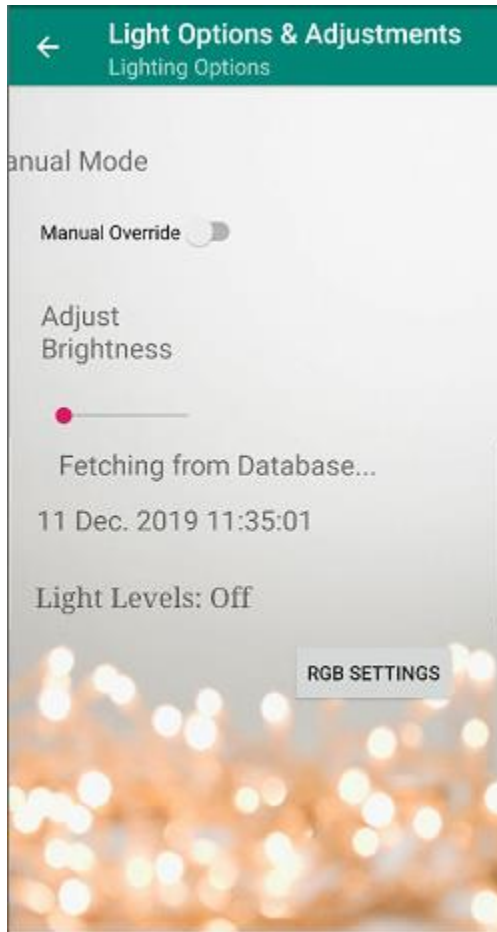


Figure 6. Light settings

The user also has the option of choosing a color for the LED ring by simply swiping on the color wheel located in the RGB settings. The values for the color chosen are displayed at the bottom in both Hex and Integer values corresponding to Red, Green and Blue. If the user taps in the middle of the wheel then it will default to white color setting.

Lumi Monitor Mobile application status update



Figure 7. Color wheel

Furthermore, the user also has the option of leaving a feedback about the app and their comments through the last menu option.

Lumi Monitor Mobile application status update

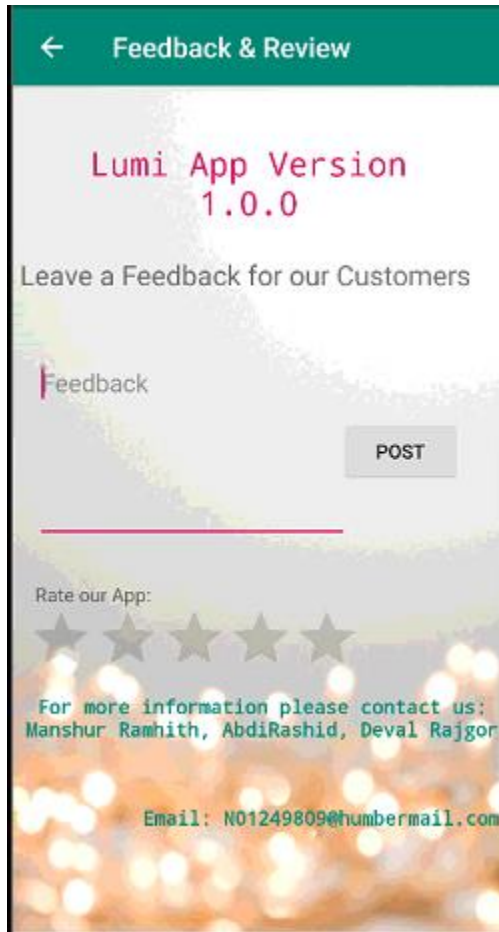
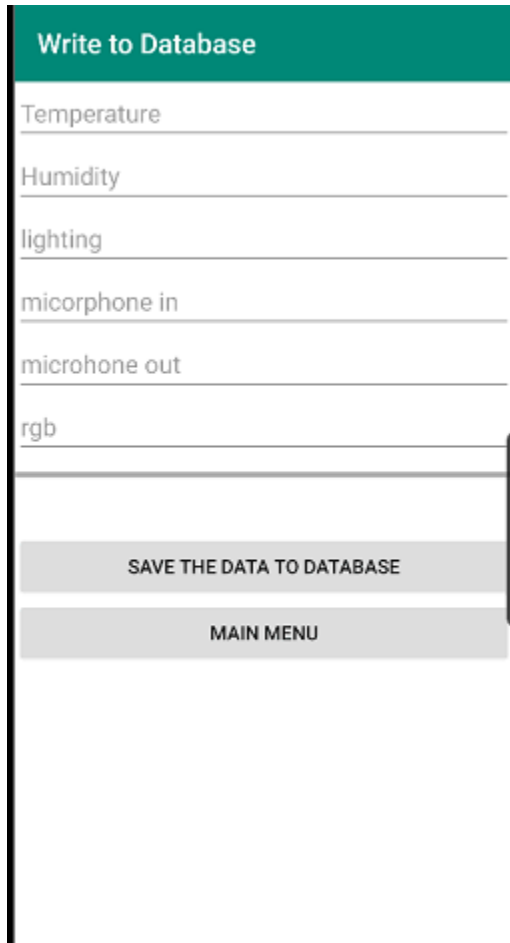


Figure 8. Feedback page

Finally, the user also has the option of writing to the database by clicking on a button located on the bottom of the menu screen. The user can enter values for temperature, humidity, lighting etc.

Lumi Monitor Mobile application status update



Write to Database	
Temperature	
Humidity	
lighting	
micorphone in	
microhone out	
rgb	
SAVE THE DATA TO DATABASE	
MAIN MENU	

Figure 9. Add to database

Link to complete code in repository:

<https://github.com/Dev-109/LumiMonitor>

Modified code files in Appendix:

[https://github.com/Dev-109/LumiMonitor/blob/master/Documents/Report%20\(2\)%20\(1\).docx](https://github.com/Dev-109/LumiMonitor/blob/master/Documents/Report%20(2)%20(1).docx)