

Final Deliverable - Screen Dumps
Course Group 4
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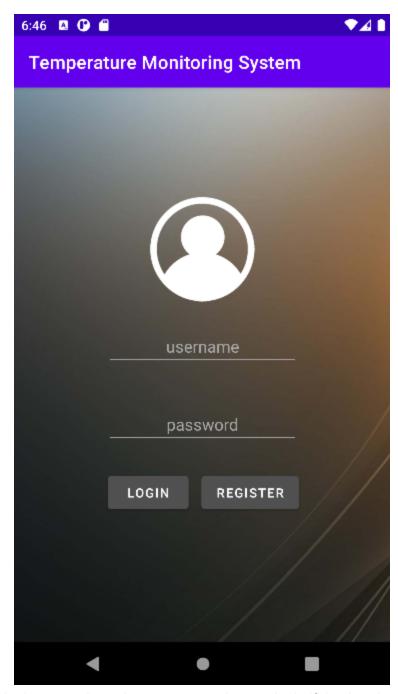


Figure 1: App login page where the user can register or login if they're already registered.

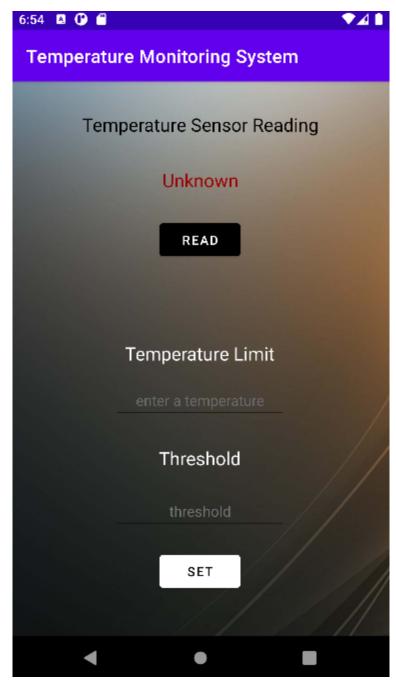


Figure 2: The main page after logging in which'll allow the user to view the temperature reading as well as set the temperature limit & threshold.

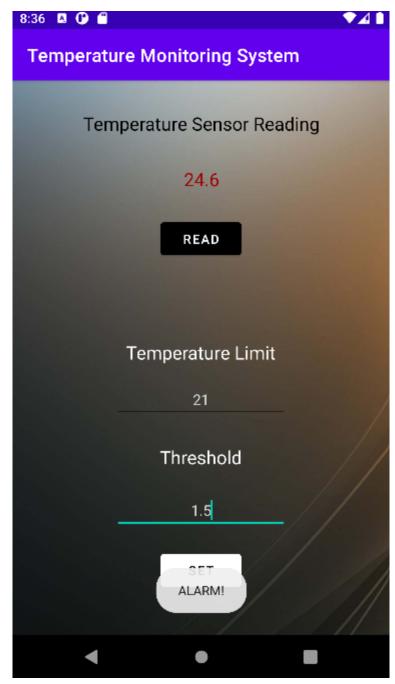


Figure 3: When the temperature exceeds the limit & threshold, the user will be notified in the app.

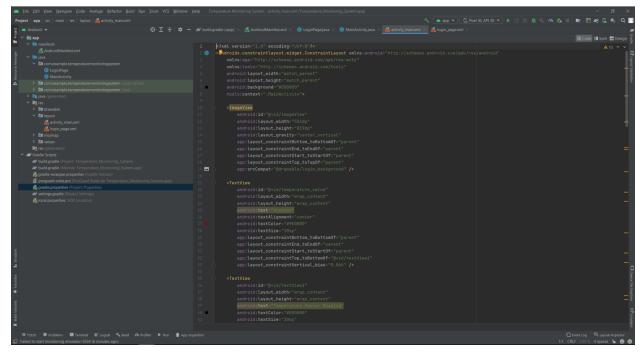


Figure 4: A glimpse of our android code for our mobile application.

```
root@ubuntu-Group4: ~
                                                                                  X
Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.4.0-91-generic x86_64)
 * Documentation: https://help.ubuntu.com
  Management:
                  https://landscape.canonical.com
 * Support:
                  https://ubuntu.com/advantage
 System information as of Tue Dec 7 00:32:43 UTC 2021
 System load: 0.0
                                 Users logged in:
 Usage of /: 8.1% of 48.29GB IPv4 address for eth0: 137.184.169.237
 Memory usage: 32%
                                 IPv4 address for eth0: 10.20.0.5
 Swap usage: 0%
                                 IPv4 address for eth1: 10.118.0.2
               116
O updates can be applied immediately.
Last login: Thu Dec 2 17:42:45 2021 from 174.119.112.32
root@ubuntu-Group4:~# mosquitto
1638837181: mosquitto version 2.0.14 starting
1638837181: Using default config.
1638837181: Starting in local only mode. Connections will only be possible from
clients running on this machine.
1638837181: Create a configuration file which defines a listener to allow remote
1638837181: For more details see https://mosquitto.org/documentation/authenticat
ion-methods/
1638837181: Opening ipv4 listen socket on port 1883.
1638837181: Error: Address already in use
1638837181: Opening ipv6 listen socket on port 1883.
 .638837181: mosquitto version 2.0.14 running
```

Figure 5: A screenshot of our DigitalOcean MQTT server/broker running.

```
root@ubuntu-Group4: ~
                                                                           X
Last login: Tue Dec 7 00:32:45 2021 from 76.69.136.114
root@ubuntu-Group4:~# node-red
7 Dec 00:42:07 - [info]
Welcome to Node-RED
7 Dec 00:42:07 - [info] Node-RED version: v2.1.3
7 Dec 00:42:07 - [info] Node.js version: v10.19.0
7 Dec 00:42:07 - [info] Linux 5.4.0-91-generic x64 LE
 Dec 00:42:08 - [info] Loading palette nodes
Dec 00:42:09 - [info] Settings file : /root/.node-red/settings.js
7 Dec 00:42:09 - [info] Context store : 'default' [module=memory]
7 Dec 00:42:09 - [info] User directory : /root/.node-red
7 Dec 00:42:09 - [warn] Projects disabled : editorTheme.projects.enabled=false
7 Dec 00:42:09 - [info] Flows file : /root/.node-red/flows.json
Dec 00:42:09 - [warn]
Your flow credentials file is encrypted using a system-generated key.
If the system-generated key is lost for any reason, your credentials
file will not be recoverable, you will have to delete it and re-enter
your credentials.
You should set your own key using the 'credentialSecret' option in
your settings file. Node-RED will then re-encrypt your credentials
file using your chosen key the next time you deploy a change.
7 Dec 00:42:09 - [info] Server now running at https://127.0.0.1:1880/admin/
```

Figure 6: Our node-red service running using DigitalOcean.

Figure 7: Some of our Arduino code that was used for the NodeMCU.

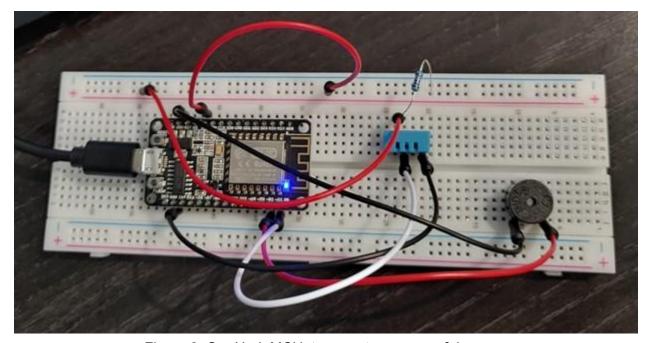


Figure 8: Our NodeMCU, temperature sensor & buzzer.