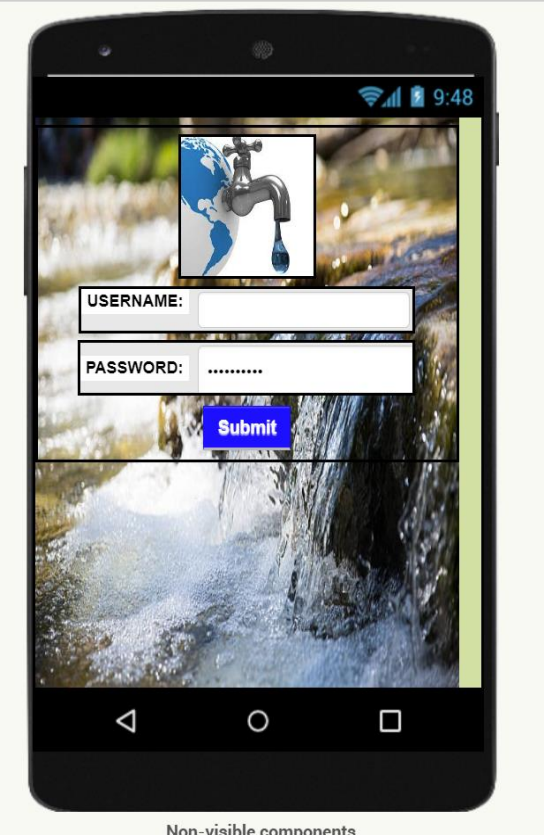
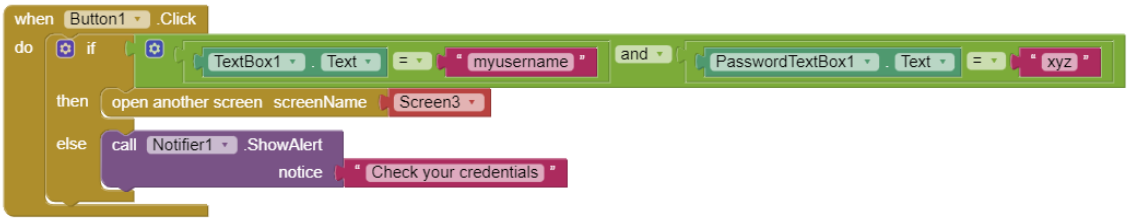
SPRINT 4

- **Building Mobile App**
  - Design UI for Log-in Credentials of User:
  - This is how the front end appears to be by the use of screen, buttons, clock etc on the MIT App Inventor.

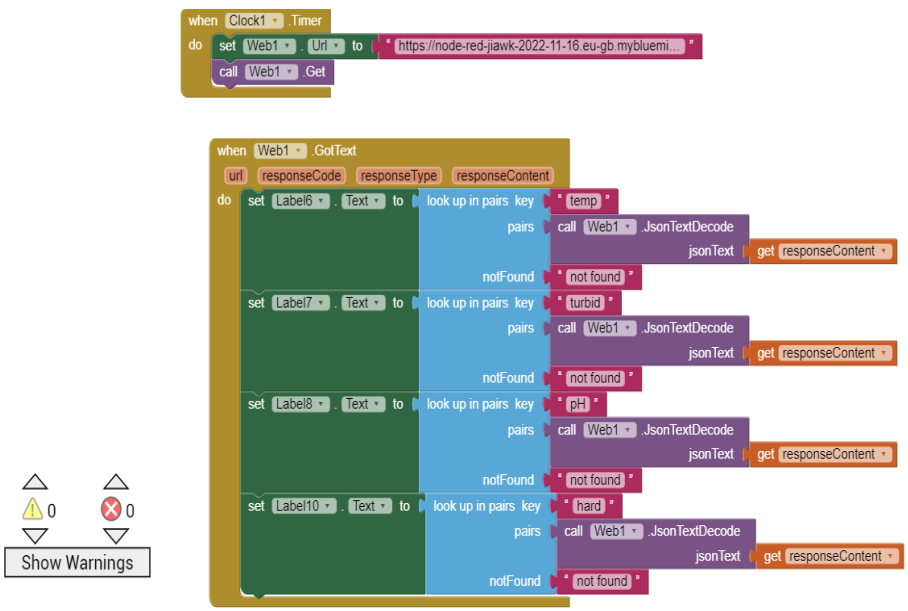


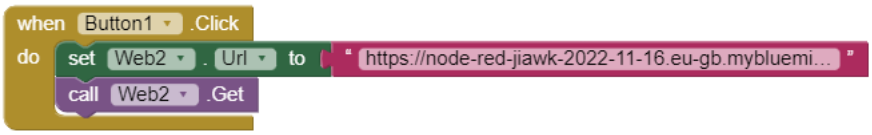
  - Configure The Application For verifying the Log-in credentials:
  - When the appropriate credentials-login and password, are given access to move to next screen is granted. If wrong credentials are given “Check your credentials” is displayed as notification.

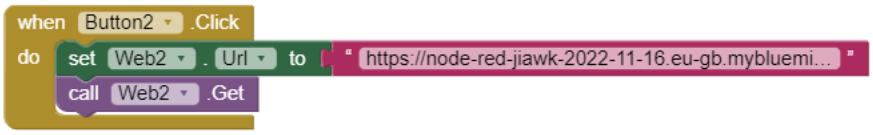


  - **Design UI to display the Water Turbidity, Hardness, pH and Temperature**

- **Configure The Application to receive the data from cloud**
- The application is configured in such a way we are setting the web url https://node-red-jiawk-2022-11-16.eu-gb.mybluemix.net/sensor to get the sensed parameters from the node red service.
- The url is decoded as it is in json text and the value of the key in dictionary is obtained.
- The command from the user is sent from MIT App inventor to Node-RED by the url https://node-red-jiawk-2022-11-16.eu-gb.mybluemix.net/command?command=on for command “ON” and https://node-red-jiawk-2022-11-16.eu-gb.mybluemix.net/command?command=off for command “OFF”







- Hence the command ON/OFF will be intimated in Node-RED service and IBM Watson Cloud platform and the code simulation runs displaying the sensed parameter values on the MIT App Inventor to the user.