UI development for infrared thermometer summary

1.Researching on how the infrared thermometer

2.Identifying the functionality of the UI such that it matches with working principles of the thermometer.

a) key features : temperature , peak values, average time-temperature

b) user interactions : user can set the following values radiation value(optional as it can be measured by the thermometer),threshold value and time interval.

User can also be able to calculate the temperature, average time-temperature ,peak value and finally plot the outputs on a graph .

The user may require to save the data for future reference thus included the functionality by adding save output button.

3)Sketching sample UI - Did create rough sketches of how UI would look like :where to place buttons ,user input fields, display fields and where to place the graph for visualizing the data.

4)Implementing the UI in the matlab environment: having choosen the best UI sketch I now had to develop it using matlab where I choose the overall layout ,choose colours ,font sizes and spacing between the components.

5)Counter checking the resulting UI to make sure I had included all the functionalities ,making sure meet the users’ requirements and it was easy to user for any level user.

Some of the problems I encountered in the process were:

a) Aggregating the functionalities of the infrared thermometer into one user interface

b) UI Layout and Components choosing and Placement: setting the font sizes, colour and spacing between the UI components