Mobile Computing Final Project

Dani Brown, Giovanni Cornejo, Austin Padilla

University of Florida

Table of Contents

[1 Group Member Effort 2](#_Toc101245851)

[*1.1 Dani Brown* 2](#_Toc101245852)

[*1.2 Giovanni Cornejo* 2](#_Toc101245853)

[*1.3 Austin Padilla* 2](#_Toc101245854)

[2 Report 2](#_Toc101245855)

[*2.1 Clarifications of the Code* 2](#_Toc101245856)

[*2.2 IDE and Dialogue Box Displays* 4](#_Toc101245857)

# 1 Group Member Effort

## *1.1 Dani Brown*

* Percent Effort: 100%
* Tasks: API calls, tweets, save/load//delete, service activation code

## *1.2 Giovanni Cornejo*

* Percent Effort: 100%
* Tasks: The report, the PowerPoint, second raspberry pi setup and services

## *1.3 Austin Padilla*

* Percent Effort: 100%
* Tasks: Front-end development, redux store and thing slices,

# 2 Report­

## *2.1 Clarifications of the Code*

The IDE was created as a web-based application using React.

Graphical user interface, text, application, email

Description automatically generated Graphical user interface, text, application

Description automatically generated

Figure 1 – In the Things Tab, information is displayed about each available thing, including the total number of things detected. Each thing is paired with a display function to show their ThingID and ThingIP. The useSelector accesses the state, which is connected to a redux store via a thing slice.

Graphical user interface, text, application

Description automatically generatedTable

Description automatically generated with low confidence

Figure 2 – The redux store (left) is made up of slices (right), which in turn are made up of a state, an action, and a reducer. Actions are labels for the reducer which manipulate the state.

Graphical user interface, text, application

Description automatically generatedText

Description automatically generated with low confidence

Figure 3 – In the Relations Tab, all relationships are presented through a filter system comprised of options such as Thing ID, Relationship Name, or Relationship Keyword.

Table

Description automatically generated with low confidenceText

Description automatically generated

Figure 4 - The Services Tab is set up the same way as the Relations Tab with Thing ID, Service Name, and Service Keyword.

## *2.2 IDE and Dialogue Box Displays*

Diagram

Description automatically generated

Figure 5 – An early prototype of what the IDE should look like.

Graphical user interface, table

Description automatically generated

Figure 6 – Early development of the IDE.

Graphical user interface

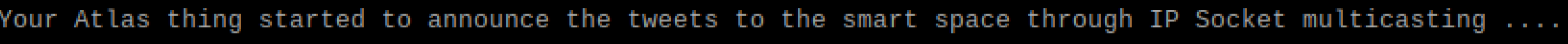
Description automatically generated with medium confidence

Figure 7 – Early development of the IDE.

Text

Description automatically generated with low confidence

Figure 7 – Development of the IDE.



Text

Description automatically generated

Figure 8 – Raspberry Pis communication