Specification/Design Document for a Notepad Mobile Application (Trunica)

Raj Desai
David Nwagbuo
Antoninus Lamptey

Computer Engineering Students
Department of Computer Science and Engineering
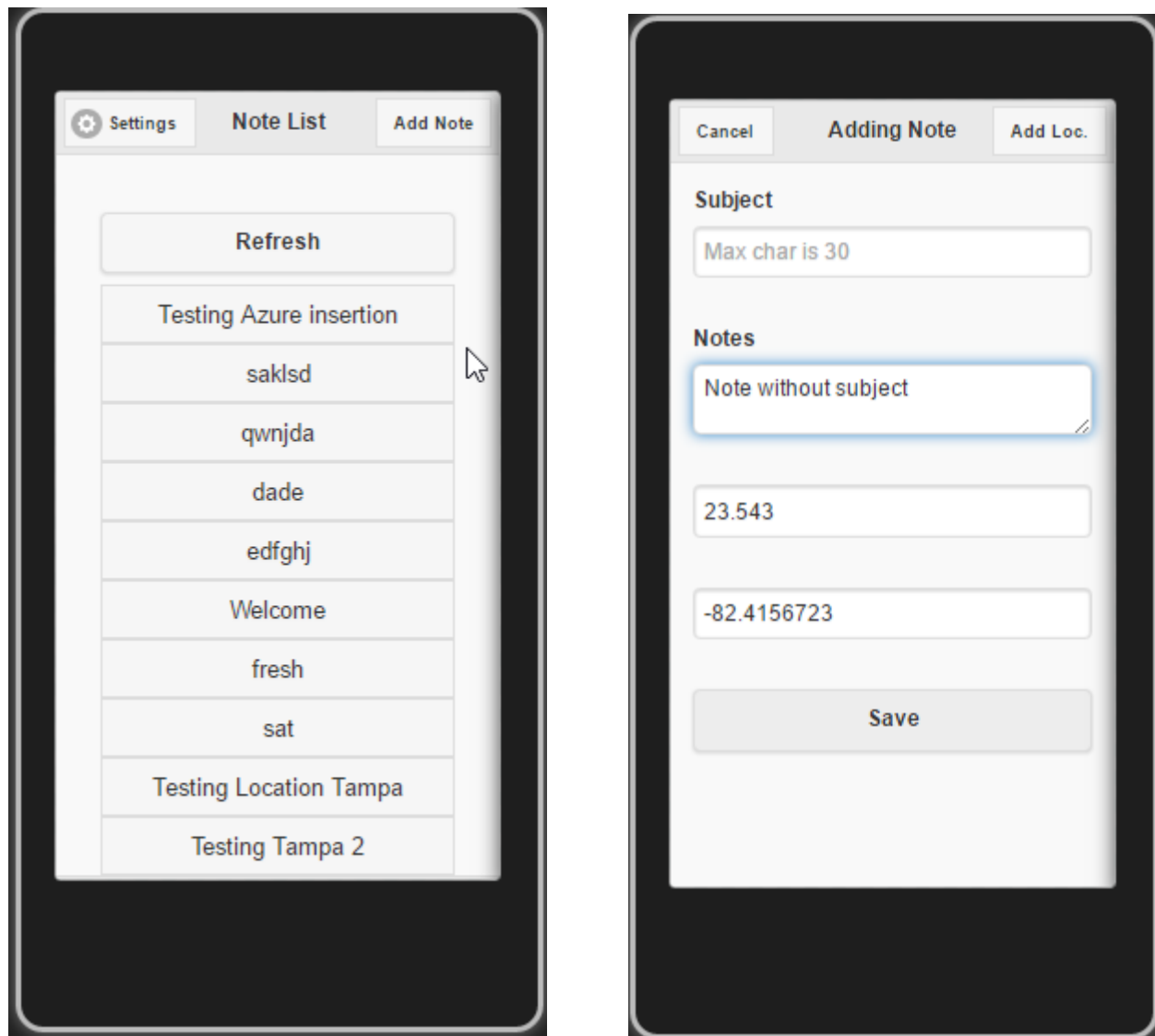University of South Florida
Tampa, FL 33620

Email:
rajdesai@mail.usf.edu
nwagbuo@mail.usf.edu
antoninus@mail.usf.edu

Version 1.01
May 4, 2016

History of document

- **Version 1.00** (February 19, 2016) – Notepad Mobile Application Specification Document Initially Created.
- **Version 1.01** (May 4, 2016) - Final modifications made to the specification document based on the completion of the project.

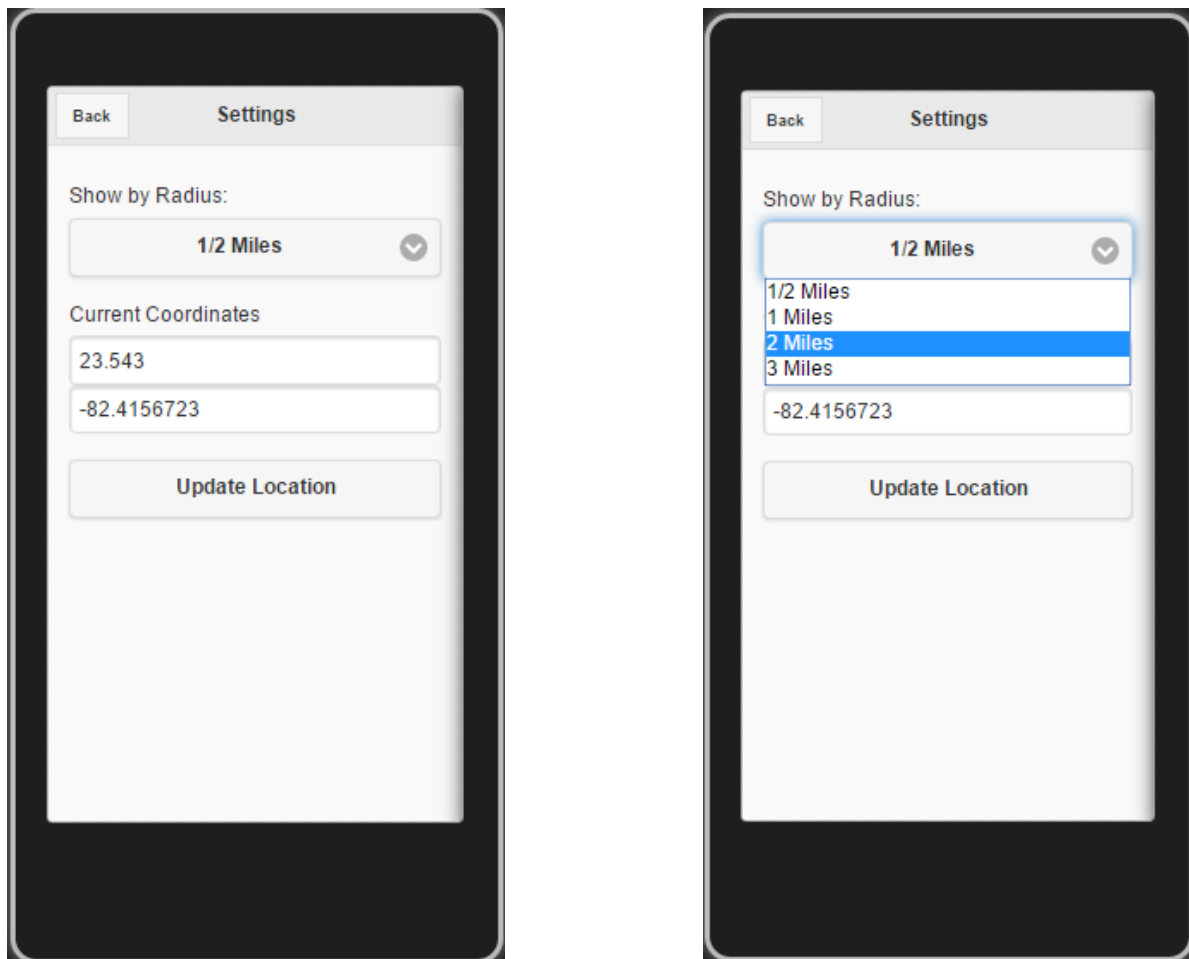## 1. The User Interface for the Notepad Mobile Application:

Figure 1 & 2 - Home and New Note Screen: The image above shows how our home screen will be customized.

1) The home screen displays all the current notes in a given radius of the user as well as any locally stored notes. There is a refresh button on this screen that updates the list of notes with the user's new location and/or selected radius.

2) The home screen features a "Settings" button on the top left that allows to user to see their current GPS coordinates as well as edit the radius in which notes are scanned for on the cloud.
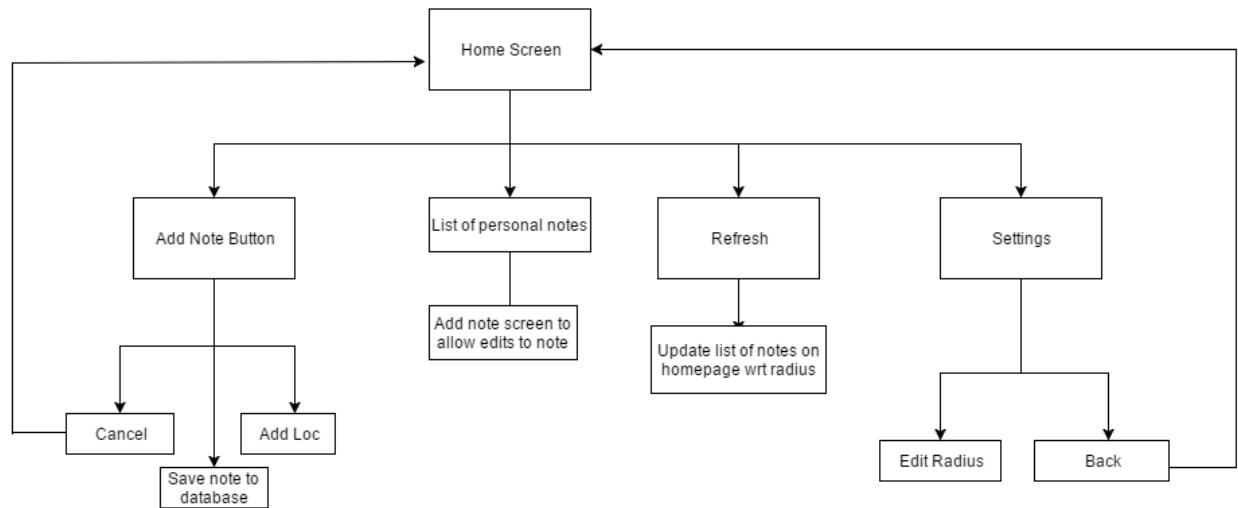
3) The "Add Note" option in the top right corner allows user to create a brand new note which will lead them to a new screen giving a two sets of text boxes; one for the subject, which is essentially the title of the note and the second for the actual content of the note.

4) There is also an "Add Location" button on the top right of the Add Note screen that allows the user to attach their current GPS coordinates to the note.

5) In addition, there is also a "cancel" or "back" button on the top left side of the "Add Note" and "Settings" pages that take the users back to the home screen with their notes.

2. The "Settings" options in the Notepad Application:

2.1 -The option to select the note radius is shown above which is determined by the user to set whatever radius they would like.

3. Flowchart showcasing the Application's overall functionality:

4. Traceability Matrix:

Test Scenario	Test Objective
TS-01	Check to make sure the "New note" button goes to a brand new screen for creating a note.
TS-02	Check to make sure the "Settings" button goes to the settings screen to change options.
TS-03	Check to make sure the "Refresh" button goes to the screen with a list of all the saved notes and updates list with notes from the new location.
TS-04	Check to make sure the "Back" and "Cancel" buttons goes to the home screen with a feed of notes.
TS-05	Validate that the users can view and edit previous notes created.
TS-06	Validate that the different radius can be selected for use in the feed.
TS-07	Ensure that the users can attach a note to a location and publish it publicly.

Table 1: This traceability matrix shows all the various test objectives in which each one is categorized by a test scenario number. This matrix will be the main guide in verifying if our design works as expected.

Test Scenarios	Requirements					
	1	2	3	4	5	6
TS-01	✓					
TS-02					✓	
TS-03				✓		✓
TS-04	✓					
TS-05	✓				✓	
TS-06		✓			✓	
TS-07		✓				✓

Table 2: This traceability matrix shows all the various test objectives each categorized by a test scenario number which are both derived from the each specification and requirement. This matrix will be the main guide in verifying if our design works as expected.