Journal

# CSC 0780-01 Application Development for Mobile Devices Fall 2015

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## Week 1 – Sep 14-20:

1. Created design document – CSC 780\_Journal.docs
2. Created wireframes using ninjamocup.com
3. Went through some Bluetooth tutorials.
4. Created a prototype app that uses Bluetooth Adapter
   1. Sets up Bluetooth.
   2. Perform device discovery and query paired devices.
   3. Created an app to test Bluetooth socket programming between two devices. First device works in server mode and the second device works in client mode.
   4. Once the connection is established between them, the two devices can exchange the messages between them.

## Week 2 - Sep 21-27:

1. Bug fixes in prototype app.
2. Worked on resolving issues related to transferring string between two paired devices.
3. Developed the feature to transfer strings between two devices via Bluetooth.
4. Started exploring options to implement drawing actions.

## Week 3 – Sep 28 – Oct 4:

1. Added drawing canvas.
2. Added NFC feature to pair devices.
3. Explored methods in the android class: DrawingCanvas and Bitmap.

Week 4 – Oct 5 – Oct 11

1. Debugged NFC and Bluetooth connectivity.
2. Explored options to transfer drawing data between devices.
3. Added Pen tool and tip sizes and colors to drawing canvas.

## Week 5 – Oct 12 – Oct 18

1. Implemented marshalling. User drawn data is marshalled and transferred to second device. The second device reconstructs the drawing and displays.
2. Implemented color picker and seek bar for pen tip size and eraser size.
3. Background color changes as per color of pen.

## Week 6 & 7– Oct 19 – Nov 1

1. Bug fixes and improvements in marshalling, to add functionality like erasing, change of colors etc.
2. Improvements on UI for drawing tools.
3. Implemented difficulty and change colors on both devices based on difficulty and pen color.
4. Plan for next week:
   * 1. Pinch zoom in and out on drawing canvas.
     2. Send and receive data to paired device from any activity.

## Week 8: Nov 2 – Nov 8

* 1. Implemented a way to exchange of data from activities other than drawing activity.
  2. Fixed the code to maintain aspect ratio of drawing on screen with different resolutions
  3. Fixed a marshalling to handle data append if the drawing JAVA object which stores drawing details is sent in multiple blocks.

## Week 9: Nov 9 – Nov 15

1. Added text file containing words with difficulty level and hint.
2. Implemented a database class to load the text file into a table and perform CRUD operations on the table.

## Week 10: Nov 16 – Nov 22

1. Implemented a “guess a word” logic for the user who is guessing. The screen shows scrambled word to be guessed. The user can guess the word with the help of drawing by first user and by selecting letters.
2. Added a code to display words from database on DifficultyActivity from levels: easy, medium and hard
3. Added a logic to allow user to open “new drawing” and “save drawing” to gallery
4. Changed frequency of transfer of drawing details to make it look real time drawing.
5. Fixed some bugs, including disabling touch for second device when first user is drawing.