Project Prime : Mobile Client

# Implementation:

1. Android Studio
   1. Java
   2. XML
   3. NodeJS
   4. Android volley!!!!
2. How?
   1. File listing
      1. Use listview and get file info ( filename and author/upload date)
      2. Print these info into the list
      3. Using volley and JSONArray request to get the json from server
         1. Iteratively go through each of the json objects to get the information (last upload and file name).
         2. Put the information in separate array lists
         3. Print into the listview
         4. Needs request queue to ensure the request is done
      4. On click open that file in file editing
   2. File Editing
      1. Parse Files onto app as strings
      2. Write strings into files on the server
      3. Use file scanner to write contents of file into a text box
         1. Make text box editable
         2. Can save the text box contents into the previous file
3. Success Criteria
   1. Ensure all files from server are accessible
      1. Maybe only able to edit text documents?
   2. Ensure ability to delete files from mobile
   3. All changes update the server files
   4. Any collisions must be dealt with
      1. Decide which takes priority?
      2. If there’s a clash discard the mobile?
      3. Upload as a different title?

# Design:

1. Main objective: Productivity
   1. 4 Main parts of the application
      1. Home page
      2. Edit Page
      3. Help Page
         1. Provide Instructions for user, clear up any possible issues
      4. Navigation Bar
         1. Just have links to the previous three pages mentioned
         2. Use navigation tray design
   2. Limit of 2 pages for the main feature
      1. Home page – Display all the files
      2. Edit page – Edit the files selected from the home page
   3. Why?
      1. Simplicity
      2. Efficiency
      3. Aim of the app is to work with files – over complicated pages would be a hinderance
   4. Colour Scheme
      1. Sticking with default android colour scheme
      2. Only sticking to a single colour scheme – don’t want an overly complex design
2. Home Page
   1. Consist of listview
      1. First line: File name
      2. Second Line: Author
      3. Click on list entry to edit
3. Edit page – Main challenge
   1. Text box where file will be parsed
   2. Changes made in the text box
   3. Press save to use file writer to write into the file the file witch changes
      1. Use reader to write the data onto app
      2. Use writer to write data on app page into the file again