Mobile App Development (CIS4034-N)   
*ICA Primer* Exercise

# Objective

This exercise aims to assist you in planning and beginning the development of your Android App ready for ICA submission.

# App Viability

Complete the following questions:

|  |  |
| --- | --- |
| Question | Answer |
| App name | Bluker |
| Brief description | No more than one paragraph  The particular application will completely base on Bluetooth technology and not on the recent trend going of wifi aid. This particular application will help any remote control to get added to their smart television within seconds and work accordingly. |
| Intended users | Who are they?  Intended users can be of all age groups but the innovative application set up will specifically help the senior adults to operate their television with just one click. The senior adults are the targeted segment since they are not technologically advanced and more accustomed with the concept of Bluetooth technology. |
| Unique screens | For example:   * Log in page * First view page * User manual page * Devices connected page * Manual control page |
| Mobile device features | For example:   * Bluetooth mode * Location services * Camera * Motion * Voice assistant |
| Data persistence | All the data will be stored in Firebase console.  It will be used as the database provided is a real-time database, which allows secure methodology to connect with the source data client and build unique data enriched applications |
| Data retrieval | How will you retrieve data in your application? For example:   * User input * Voice input * HTTP Web API requests (also list URL endpoints here). |
| Security | Do you require user sign up? Will you provide your own user sign up, or rely on an OAuth2 implementation from a 3rd party provider?  A basic sign in procedure is required for which a login page will be created to maintain the confidentiality of the individual using the system. This sign in will take biometrics in order to avoid the hassle of logging in every time making it user friendly. |
| Permissions | What permissions will your app require?  Enabling of Bluetooth  Enabling of location  Enabling of media access |
| What tools will you use to deliver the application? | The platform of Android Studio will be the best in order to deliver the application since it has pre-requisite features and minimises the hassle of developing a lot of features. |
| What agile methodology will you use? | Adaptive Frequency Hopping technique will be used in this setup. This approach method has been selected since often in wireless connection, problems like network interference or collision might occur which leads to interruption in between the process. This technique will avoid the interference and increase the resilience of the wireless technology. Thus, it leads to a non-abrupted smooth connection set up |