Journal

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# September 5 – 8

* Helped setup android studio for Kieran and Brennon
* Dealt with issues regarding the placement of the SDK and the versions of windows (32bit vs. 64bit)
* Understood the basic concept of MVC (separate the presentation from the functionality)
* Thinking about doing Firebase
* Awaited further instructions

# September 11 – 15

* Decided to make an app that rolls 2 dice and flips a coin
* Learned about tab layouts and Fragments
* Researched and read about Tab layouts
* Managed to create tabs in my screen
* Those tabs were then populated with fragments (parts of activity)
* These fragments needed to be managed with a FragmentPagerAdapter
* The FragmentPagerAdapter deals with how the fragments are stored in memory
* Each fragment requires a layout and needs to be stored in a container (viewpager)
* The viewpager takes care of switching to the correct layout on correct screen
* Learned how to load images into the app and change their source later
* Learned about the uses of ID for each view in the layout files

Sources:

<https://www.youtube.com/watch?v=UqtsyhASW74> (tabs + fragments)

<https://developer.android.com/training/implementing-navigation/lateral.html> (tabs)

<https://www.youtube.com/watch?v=00LLd7qr9sA> (tabs + fragments)

# September 18 – 22

* Finished the MVC application – uploaded it to GitHub
* Found a tutorial series creating an Instagram clone + the backend is all firebase
* Haven’t had a chance to journalize much (have been following the series)
* I did a lot of work over the weekend
* The app has multiple activities, a “my profile” page and a lot of layouts and widgets
* Got started with Firebase, the user can now login or signup.
* I have also got the hang of the common xml tags such as ID, width, height etc. and setting “onClickListeners” for different widgets
* This series has a lot to offer and I will continue to follow it

Tutorial Series:

<https://www.youtube.com/watch?v=qpJRgr6HzAw&list=PLgCYzUzKIBE9XqkckEJJA0I1wVKbUAOdv>

* Uploaded everything up until Tutorial Series part 24.
* From now on, will commit after every video
* Helps with documentation
* Will get started on commenting everything in the code.
* All firebase dependencies must have the same version at the end

# September 23 – October 10

* Continuing with the app on the weekend
* Firebase likes to store numbers as longs
* The tutorial attaches a user model to the firebase database and the database accepts all the attributes of the model as parameters and their values as the parameter’s values. Not sure how it works but it’s neat.
* Able to add user info to the database
* Talked to Mr. Grondin about learning angular, js, node and mongoDB
* Maybe considering electron for building a cross platform app
* Will do research and document everything to present later
* End Goal: make a web based application (possibly a game)
* The user can sign out in the app now.
* Will work on the progress report this weekend

# October 11 – October 30

* Hoping to finish the tutorial series between now and the next report
* Learned about interfaces and dialogs in android studio
* Can update email and username in the database