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Senior Seminar

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Capstone Project Report

My capstone project, the Generic Digital Character Sheet (GDCS), is being

designed as an Android application using Java. The aim is to create an application that

will enable users to create their own custom role-playing game character sheets,

thereby avoiding creating an app that is only useful in one rule system. This will also

have the side benefit of allowing the user to use one application to manage character

sheets for all the rule systems that they play in.

Before I can develop this app, I must first become familiar with Java and its

differences with languages I am more familiar with. Next, I must choose an environment

in which to develop my app, as there are several options. There are no plans currently

to use any unfamiliar algorithms. However, I must develop some logic/ rules as to how a

user will be allowed to build a character sheet without it becoming too complicated.

Since GDCS will be a graphical app, I must also develop a concept for a GUI.

Since I am not familiar with the Android development life cycle, nor Java, I have

spent my time up to this point familiarizing myself with the necessary technologies.

Lessons regarding these are freely available online. Links to the lessons that I have

been following are available at the end of this report. I have not completed all of the

lessons given in these sources, but I plan to continue working through them. I have

chosen Android Studio as my development environment. This is partly due to the ease

of finding materials on how to use the IDE specifically for Android apps. I have produced

a simple diagram (included in the rar) displaying the concept for what the user interface

should look like, however I am not ready to declare it final. I have not come up with any

solid logic for GDCS at this point, but I am currently sketching out rules for how a

character sheet is to be formed.

Java Resources:
        http://www.learnjavaonline.org
        http://triton.towson.edu/~mzimand/os/Lect2-java-tutorial.html

Android Tutorials (Android Studio):
        thenewboston, YouTube -
        https://www.youtube.com/playlist?list=PL6gx4Cwl9DGBsvRxJJOzG4r4k_zLKrnxl