**Project Report**

1. Description

The Grade Utility App is meant to provide students the ability to track their grades in a given course and forecast their grade from the provided information. Users can edit their login information, create courses, add assessments and finally use the forecast function. The App makes use of a MySQL Database that is being hosted on a free server provided by 000webhost.com; the data is handled by PHP Scripts which are also located on the server.

1. Project Development

Week 10 – Project Initiated

Week 11 – Project Proposal Made

Week 12 – GUI Design and Implementation (Layouts)

Week 13 – Business Logic and Persistence Implemented (Activities, PHP Scripts)

Week 14 – Menus, Input Validation and Testing Performed

1. Conclusions

The App presented us a challenge due to the multi layered nature of the architecture. We had to establish a set of steps to take when debugging to ensure that we could systematically identify the source of the problem. The process we employed involved in testing from the Database end up, by ensuring our PHP scripts were functioning we were able to reduce the scope of our errors. Along with extensive use of the LogCat we were able to readily target problem sources, and resolve them in a timely manner

Issues also arose due to our lack of a repository for source code, there was problems encountered while attempting to integrate the individual team member contributions. As such a significant amount of effort and time went into harmonizing the extras being passed with our intents from one activity to another to ensure that navigating from activity to activity could happen in a smooth manner.

Ultimately the project allowed us to hone our skills in managing multiple activities and the flow of information in an Android App. The project was initially developed locally by using a WAMP server which served as our development environment and we migrated to the 000webhost as a precursor to deployment as a full-fledged App. We were able to complete the requirements we had set out at initiation of the project and we plan on refining the App, improving its security measures and deploying to our wireless devices.