Introduction

This document summarizes the total designs of the application through a few diagrams which consists of: Architectural, Detailed and Dynamic designs. The purpose is to describe the general logic of the application. The Architectural design is denoted as a 4+1 architectural view which is illustrated via activity diagrams. This will demonstrate the paths that the system will take while running the application. The detailed design demonstrate how each objects interact with each other when an action occurs. This is illustrated via a UML class diagram. To ensure that the diagram is fully elaborated, the detailed design is divided into 4 parts each focusing on a specific sub-system: UI, authentication, database and scheduler each of which has their own UML diagram and description. The dynamic design is expressed via 2 use cases: add course and generating schedule, both are expressed via their own system sequence and sequence diagrams. This will display how and when the systems interacts with one another as the application is in use. In addition, it also shows the reader what is being sent/received by the system, which is very important as projects get larger. Finally, the document will cover the cost estimate using the knowledge of function points. The main goal of deliverable 2 is to discuss, at an abstract level, how the application’s algorithm is established.