SOFTWARE REQUIREMENTS SPECIFICATION

for

<Final Project>

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Contents

1 Introduction

1.1 Purpose

1.2 Intended Audience and Reading Suggestions

1.3 Project Scope

The software is targeted at both students and administrative faculty who need to create a quarterly course schedule, either for personal use or to be distributed to students. The software shall allow users to create a schedule, view course prerequisites, and validate a schedule against a separate requirements file.

2 Overall Description

2.1 Product Perspective

The software will be a new, self-contained product. It is not based on an existing project.

2.2 Product Functions

2.3 User Classes and Characteristics

2.4 Operating Environment

The system shall use the Java SE 6 platform.
The system shall use the Swing toolkit for GUI elements.

2.5 Design and Implementation Constraints

Users shall specify which requirements specific courses fulfill.

2.6 Assumptions and Dependencies

Campus departments will provide an XML file detailing the requirements for students following a specific catalog year in that department.

3 External Interface Requirements

3.1 User Interfaces

3.2 Hardware Interfaces

3.3 Software Interfaces

4 System Features

4.1 Description and Priority

Users may create a quarterly course schedule by adding course objects to a grid, the columns of which represent quarters. Courses may be deleted and moved between quarters via drag-and-drop. Course data may be edited. Users may specify prerequisite and corequisite courses as well as the number of units the course fulfills.

4.2 Stimulus/Response Sequences

Stimulus: User requests to create a new course in a specific quarter.
Response: System provides a form for the user to enter the course data.
Stimulus: User requests to delete a course.
Response: The course is removed from the flowchart.
Stimulus: User requests to update data for a course.
Response: The course data is presented in an editable format. When finished,
changes may be saved or discarded.
Stimulus: User requests to move a course to a different quarter.
Response: The course is moved to the column representing the desired quarter in the
flowchar

4.3 Functional Requirements

5 Other Nonfunctional Requirements

5.1 Performance Requirements

5.2 Safety Requirements

5.3 Security Requirements