IPFW

MyIPFWAdvisor
Use-Case Specification: Generate Schedule

Version 1.1

Revision History

Date	Version	Description	Author
24/1/2012	1.0	Initial version	Trent Forkert
31/1/2012	1.1	Added metainformation, some other tweaks	Trent Forkert

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Use-Case Specification: Generate Schedule

1. Use-Case Name

1.1 Brief Description

The purpose of this Use-Case is to describe what the system does when it generates a potential schedule of courses. Students are able to use the system to generate schedules, which the system handles through Sugar.

1.2 Actors

1.2.1 User

1.2.1.1 Student

1.2.1.2 Advisor

2. Flow of Events

2.1 Basic Flow

2.1.1 The use case begins when Student requests a schedule.

2.1.2 Use Case: Authenticate is performed.

2.1.3 The System presents options for different saved preferences.

2.1.4 The Student selects a set of preferences.

2.1.5 The System prompts for a semester to schedule for.

2.1.6 The Student selects a semester.

2.1.7 The System uses Sugar and the Preferences, Semester, and Schedule of Courses to generate a schedule.

2.1.8 The System presents the Student the generated schedule.

2.1.9 The use case ends successfully.

2.2 Alternative Flows

2.2.1 Unauthenticated
If in step 2 of the basic flow, the use case: Authenticate User does not complete successfully, then

2.2.1.1 The use case ends with a failure condition.

2.2.2 No Preferences
If in step 3 of the basic flow, the student does not have and preferences saved, then

2.2.2.1 The Use Case: CRUD The Preferences is performed.

2.2.2.2 The use case resumes at step 3.

2.2.3 Invalid Semester
If in step 6 of the basic flow, the User selects a semester which is not currently valid, then

2.2.3.1   The System shall display the message "Invalid Semester – please try again"

2.2.3.2   The use case resumes at step 5.

2.2.4   No Schedule

If in step 7 of the basic flow, the System is unable to generate a schedule, then

2.2.4.1   The System shall display a message indicating this.

2.2.4.2   The use case resumes at step 3.

2.2.5   Instructor Persmission Required

If in step 8 of the basic flow, the generated schedule contains a course that would require Instructor Persmission, then

2.2.5.1   The System displays a notice containing this information

2.2.5.2   The use case resumes at step 8

2.2.6   Quit

If at any point prior to step 8 of the basic flow, the User disconnects from the System for any reason, then

2.2.6.1   Any pending actions are cancelled

2.2.6.2   The use case ends.

3.   Special Requirements

4.   Preconditions

5.   Postconditions

5.1   Successful Completion
The User has received the generated schedule.

5.2   Failure Condition
The logs have been updated accordingly.

6.   Extension Points