IPFW

MyIPFWAdvisor
Use-Case Specification: Generate Schedule

Version 1.2

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
7/2/2012	1.2	Added Preconditions, streamlined flow	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. Users 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 the user requests a schedule.*

2.1.2   *The System prompts for a semester to schedule for.*

2.1.3   *The User selects a semester.*

2.1.4   *The User presses "Go."*

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

2.1.6   *The System presents the User the generated schedule.*

2.1.7   *The use case ends successfully.*

2.2   Alternative Flows

2.2.1   *Advisor Role*
   If in step 1 of the Basic Flow, the user is an Advisor, and not a Student, then

2.2.1.1 The System prompts the Advisor to select a Student.

2.2.1.2 The Advisor selects a Student.

2.2.1.3 The Use Case continues from step 1 with the Advisor acting on behalf of the Student.

2.2.2   *No Schedule*
   If in step 7 of the basic flow, the System is unable to generate a schedule, then

2.2.2.1 The System shall display a message indicating this.

2.2.2.2 The use case resumes at step 3.

2.2.3 *Instructor Persmission Required*

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

2.2.3.1 The System displays a notice containing this information

2.2.3.2 The use case resumes at step 8

2.2.4 *Quit*

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

2.2.4.1 Any pending actions are canceled.

2.2.4.2 The use case ends.

3. Special Requirements

4. Preconditions

4.1 Authentication

The User must be authenticated via Use-Case: Authenticate User.

4.2 Bingo Sheet

The Student must have a valid Bingo Sheet defined via Use-Case: CRUD the Bingo Sheet.

4.3 Preferences

The Student must have valid preferences defined via Use-Case: CRUD the Preferences.

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