Overview

JMU Schedule is a desktop application that is intended to allow department administrators (e.g., Department Head, Assistant Department Head) to schedule course offerings for future semesters.

Typical Workflow

When an academic calendar is design (or modified), the administrator will create a template that describes that calendar.

When the course offerings for a semester are being planned, the administrator will create a supporting document that contains faculty preferences, a supporting document that contains course needs, and an instance document for that semester. The administrator will then iteratively edit the instance document in an attempt to find a schedule that satisfies all of the preferences and constraints. The system will report on differences between actual and desired/required in an effort to make the iterative process more efficient.

Administrator Needs

As an administrator I need to…

Related to Templates

A1.   Describe blocks.

  A1.1.   Standard blocks (e.g., MWF, 50 minute courses, 15 minutes between courses)

  A1.2.   Non-standard blocks.

A2.   Save blocks.

A3.   Open blocks.

A4.   Edit blocks.

A5.   Combine blocks into calendars.

A6.   Save calendars.

A7.   Open calendars.

A8.   Edit calendars.

A9.   Edit the feasibility of a block (e.g., prevent anyone being assigned to W from 12:20-1:10).

A10.   Describe rooms.

  A10.1. Include building name.

  A10.2. Include room number.

  A10.3. Include number of seats.

  A10.4. Include descriptive information (e.g., rows, round tables, reconfigurable).

A11.   Save rooms.

A12.   Open rooms.

A13.   Edit rooms.

Related to Supporting Documents

A14.   Describe instructor preferences (courses, times, and rooms).

A14.1. Including course preferences.

A14.2. Including time preferences.

A14.3. Including room preferences.

A15.   Save preferences.

A16.   Open preferences.

A17.   Edit preferences.

A18.   Describe course needs.

A18.1. Include identifier.

A18.2. Include the number of seats needed.

A18.3. Include the maximum number of seats per section.

A19.   Save course needs.

A20.   Open course needs.

A21.   Edit course needs.

Related to Instances

A22.   Add a course to the current semester.

A22.1. Add a single section.

A22.2. Add multiple sections.

A23.   Delete a course from the current semester.

A23.1. Add a single section.

A23.2. Add multiple sections.

A24.   Assign an instructor.

A24.1. To a particular course.

A24.2. To a particular course at a particular time.

A24.3. To a particular course, at a particular time, in a particular room.

A25.   Have conflicts identified.

A25.1. Instructor conflicts.

A25.2. Room/time conflicts.

A26.   Display an overall rating of the quality of the assignments.

A26.1. Include instructor preferences in the rating.

A27.   Print a summary of the course offerings for a semester organized by course.

A28.   Print a summary of the course offerings for a semester organized by instructor.

A29.   Display the number of seats by course.

A30.   Display a schedule of all offerings by room and time.

A31.   Print a schedule of all offerings by room and time.

A32.   Export course offerings for use in Plan.

Faculty Needs

As a member of the faculty I need to…

Related to Instances

F1.   Display a schedule containing the courses I am teaching.