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Domain Model:

Course
+Subject
+CatalogNbr
+ClassDescr
+UnitsMin
+UnitsMax
+TopicDescr

Section
+Section
+Consent
+EnrlCap
+Instructor

1 ... 0..* +course ... +sections

+Courses ... 0..*

0..1

Semester
+Name

+meeting ... 0..1 ... 1

Meeting
+MeetingType
+MeetingStartDt
+MeetingEndDt
+MeetingStartTime
+MeetingEndTime
+MeetingDays[7]
+FacilityId

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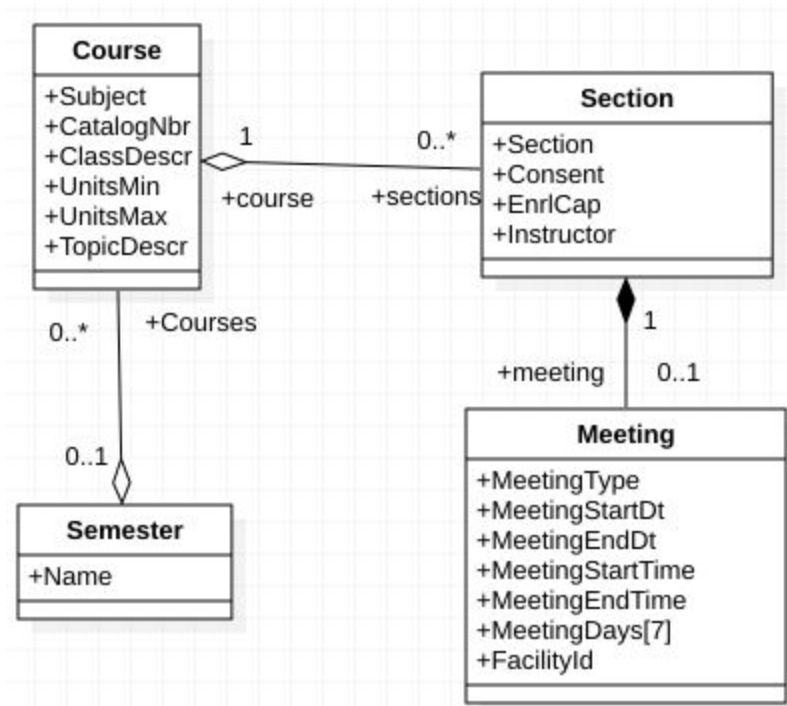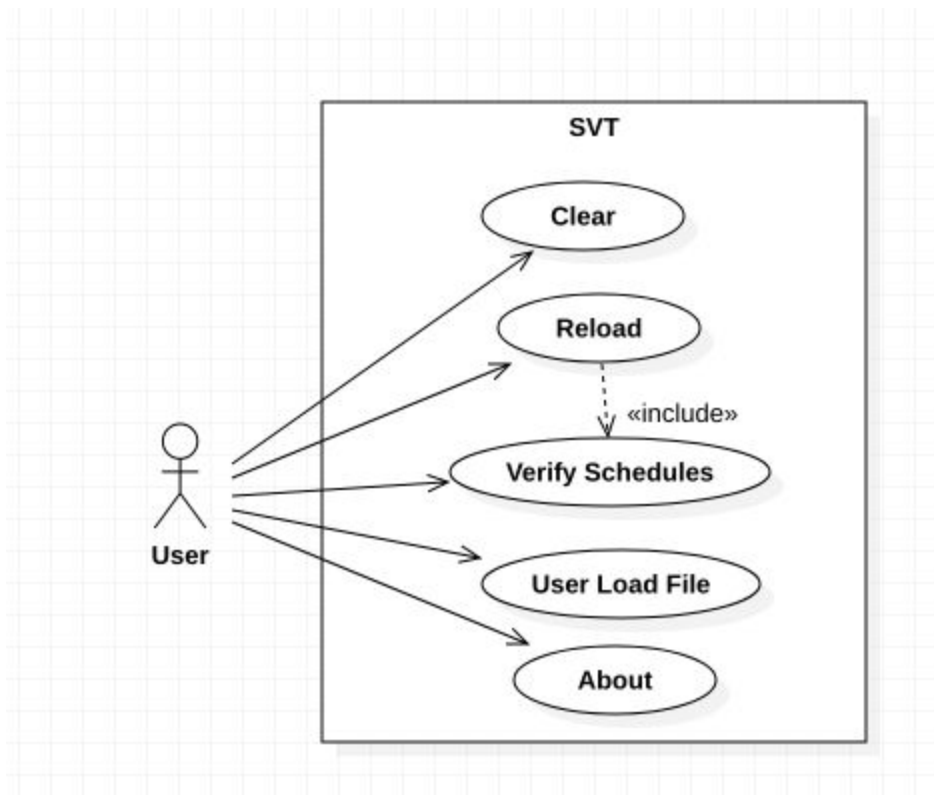
Use Case Diagram:

Use Case Diagram Description:

The user interacts with the Clear, Reload, Verify Schedules, User Load File, and About. Reload includes Verify Schedules as according to the description given, when you reload, you verified the files again. The use cases are contained in the SVT box as the SVT is the system and the user interacts with the system. This is why SVT is not an actor.

The User actor interacts with the system to load in a local and SIS schedule and verify them against each other. If the user wants, they can reload the files, clear the schedules from system, or learn more about the system (about). This is represented by five use cases: User Load FIle, Verify Schedules, Reload, Clear, and About.

Use Case Descriptions:

#1
Name: User Load File
Description: Loads a local semester schedule from a CSV file.
Actors: User

Includes: None
Triggers: User selects load local file.
Pre-conditions: None
Basic Flow: 1. User selects file to load
                2. System reads and loads in schedule information
                3. Filename/path is displayed to user
Exceptions: User does not select the correct file type, User closes the window or selects cancel, User selects the correct file type but it does not contain the proper format.
Post-conditions: Schedule has been successfully loaded into the SVT.

#2
Name: Verify Schedules
Description: Verifies the local schedule to the KSIS SIS schedule.
Actors: User
Includes: None
Triggers: User selects load KSIS file.
Pre-conditions: A local CSV schedule is loaded.
Basic Flow: 1. If filename provided: System reads and loads in schedule information
                2. Filename/path is displayed to user
                3. System verifies local schedule to SIS schedule
Alternate Flow: 1. If filename not provided: System opens file explorer
                2. User navigates to desired file
                3. User selects desired file
                4. User selects open on the file explorer window
                5. Filename/path is displayed to user
                6. System verifies local schedule to SIS schedule
Exceptions: User does not select the correct file type, User closes the window or selects cancel, User selects the correct file type but it does not contain the proper format, Section in the local semester not found in SIS file, Section from the SIS file not found in local semester schedule, Section in the local semester schedule has been changed from the associated section in the SIS file. All of these will cause an error to be shown.
Post-conditions: Successful Verify Schedules and SVT prints message indicating Verify Schedules success.

#3
Name: Reload
Description: Loads a local semester schedule from a CSV file.
Actors: User
Includes: Verify Schedules
Triggers: User clicks reload button.
Pre-conditions: None
Basic Flow: 1. System removes schedules from memory
                2. System loads the local file

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3. System verifies local file against KSIS SIS file. (Verify Schedules)

Exceptions: Local filename not valid/doesn't exist, KSIS CIS filename not valid/doesn't exist.
Post-conditions: Successfully reloaded both files.

#4
Name: Clear
Description: Clears schedules from memory and makes filenames empty.
Actors: User
Includes: None
Triggers: User selects the clear button.
Pre-conditions: None
Basic Flow: 1. System removes schedules from memory
        2. System sets the local and SIS CSV filenames to empty.
        3. System updates display
Exceptions: None
Post-conditions: Schedules successfully removed from memory and filenames are empty.

#5
Name: About
Description: Shows current SVT version and version date to the User
Actors: User
Includes: None
Triggers: User selected the About button.
Pre-conditions: None
Basic Flow: 1. Current SVT version and version date is displayed to user
Exceptions: None
Post-conditions: Successfully displays about info