

Use Case Descriptions:

#1

Name: User Load File

Description: Loads a local semester schedule from a CSV file that .

Actors: User, SVT

Includes: SVT load file, File Selected

Triggers: User clicked load local file in the File dropdown.

Pre-conditions: Application is running

Basic Flow:

1. SVT opens file explorer
2. User navigates to desired file
3. User selects desired file
4. User selects open on the file explorer window
5. SVT reads and loads in schedule information (SVT load file)
6. Filename/path is printed onto corresponding textbox (File Selected)

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. All of these will cause an error to be shown.

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, SVT, File Selected

Includes: SVT load file

Triggers: User clicks load KSIS file from file menu.

Pre-conditions: Application is running and a local CSV schedule is loaded.

Basic Flow:

1. SVT opens file explorer
2. User navigates to desired file
3. User selects desired file
4. User selects open on the file explorer window
5. SVT reads and loads in schedule information (SVT load file)
7. Filename/path is printed onto corresponding textbox (File Selected)
8. SVT verifies local schedule to SIS schedule

Alternate Flow:

1. If filename/file path is already provided, skips file explorer selection.
2. SVT reads and loads in schedule information (SVT load file)
3. Filename/path is printed onto corresponding textbox (File Selected)
4. SVT 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, SVT

Includes: Verify Schedules, SVT load file, Remove Schedules

Triggers: User clicks reload button.

Pre-conditions: Application is running

Basic Flow:

1. SVT removes schedules from memory (Remove Schedules)
2. SVT loads the local file (SVT load file)
3. SVT 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. This will cause an error to be shown.

Post-conditions: Successfully reloaded both files.

#4

Name: Clear

Description: Clears schedules from memory and makes filenames empty.

Actors: User, SVT

Includes: Remove Schedules

Triggers: User clicks on the clear button.

Pre-conditions: Application is running

Basic Flow:

1. SVT removes schedules from memory (Remove Schedules)
2. SVT sets the local and SIS CSV filenames to empty.

Exceptions: None

Post-conditions: Schedules successfully removed from memory and filenames are empty.

#5

Name: About

Description: Prints current SVT version and version date to SVT text box.

Actors: User, SVT

Includes: None

Triggers: User clicks the About button.

Pre-conditions: Application is running

Basic Flow:

1. Current SVT version and version date printed in SVT text box.

Exceptions: None

Post-conditions: Successfully printed about info to the text box.

#6

Name: File Selected

Description: When a local file or SIS CSV file is selected, the filename will be printed to the appropriate text box.

Actors: SVT

Includes: None

Triggers: Local file or SIS file is loaded/selected.

Pre-conditions: File is successfully loaded/selected.

Basic Flow: 1. SVT prints filename to textbox.

Exceptions: None

Post-conditions: Filename is successfully printed to the appropriate text box.

#7

Name: SVT load file

Description: Reads in and loads the information from the file to memory.

Actors: SVT

Includes: None

Triggers: New file is selected/files reloaded

Pre-conditions: Valid file is selected

Basic Flow:

1. File is opened and read in.
2. Information in file is stored as a schedule.
3. File is closed.

Exceptions: Invalid format or file no longer exists. This will cause an error to be shown.

Post-conditions: File is successfully loaded and stored into memory as a schedule.

#8

Name: Remove Schedules

Description: Removes all schedules from memory.

Actors: SVT

Includes: None

Triggers: Clear or Reload functions are ran.

Pre-conditions: None

Basic Flow: 1. SVT removes local and KSIS SIS schedules from memory.

Exceptions: None

Post-conditions: All schedules have been successfully removed.

Use Case Diagram Description:

The user interacts with the Clear, Reload, Verify Schedules, User Load File, and About, while the SVT interacts with all of the use cases in the program. We thought that the Clear use case would include remove schedules as you need to Remove Schedules while also doing other functions in that use case. Reload also includes Remove Schedules, SVT Load File, and Verify

Schedules for this reason as well. Verify Schedules includes SVT Load File as you need to load in the KSIS SIS file. It also contains File Selected as you select the KSIS SIS file, so you need to update that text box as well. User Load File includes the same functions as Verify Schedule for the same reason.