

# 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.

**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.

**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.

**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.

**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.



