

User Stories.

High level and all about the who and what. Generally limited in amount as it is so general.

WHO, WHAT, WHY, ACCEPTANCE CRITERIA

User Story

As a **Student**, I want to **download my SFU class schedule as an .ics file**, so that I can **import it into my iCalendar and never miss a class**.

Acceptance Criteria

1. The system provides a button "Download iCal" that, when clicked, delivers a valid **.ics** file.
2. All class times in the file are represented in Pacific Time (PST/PDT).
3. Each calendar event includes a 15-minute pre-event reminder.
4. Each class event is set to recur weekly until the last day of the term.

USE CASES.

Will always have a primary actor that is doing an action and then a secondary actor that is reacting. We then have preconditions that make the case happen and then trigger that forces the instance and then the main scenarios and alternate flows and then post conditions which are the end scenarios at the end.

Use Case UC-01: Upload SFU Class Schedule Image

- **Primary Actor:** SFU Student
 - **Secondary Actor:** Web Application (Server & Frontend)
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1. Preconditions

1. Student is logged into the Web Application.
2. Student is on the "Import Schedule" page.
3. Student has a clear screenshot or photo of their SFU class schedule saved locally.

2. Trigger

Student clicks the “**Upload Schedule**” button.

3. Main Success Scenario (Basic Flow)

1. **System** prompts student to select an image file.
 2. **Student** selects their schedule image and clicks “**Submit.**”
 3. **System** receives the image and invokes OCR & parser to extract course data.
 4. **System** converts extracted data into a valid **.ics** calendar format.
 5. **System** returns to the frontend, displaying:
 - A preview of the parsed schedule in human-readable text.
 - A “**Download .ics**” button.
 6. **Student** clicks “**Download .ics**” and saves the file to their local calendar.
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4. Alternate Flows

4A. Server Unavailable

1. At step 3, the server is down or times out.
2. **System** returns HTTP 500.
3. **Frontend** displays error:

“Oops, something went wrong on our end. Please try again later.”
4. **Use Case Ends** with failure.

4B. Invalid File Type

1. At step 2, **Student** selects a non-image file (e.g., PDF or **.docx**).
2. **Frontend** immediately rejects it and shows:

“Please upload a JPG, PNG, or GIF image of your schedule.”

3. **Use Case Returns** to step 1 (prompt for upload).

4C. OCR/Parsing Failure

1. At step 3, OCR runs but can't detect a valid schedule layout.
2. **System** flags “unrecognized format.”
3. **Frontend** shows:

“We couldn't detect any class information. Please upload a clearer schedule screenshot.”

4. **Use Case Returns** to step 1.

5. Postconditions

- **Success:**
 - Student sees parsed schedule preview.
 - Student can download a valid **.ics** file ready for import into iCalendar.
- **Failure (4A):**
 - No preview or download available; server-error message displayed.
- **Failure (4B / 4C):**
 - No conversion attempted; guidance message displayed to student.

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