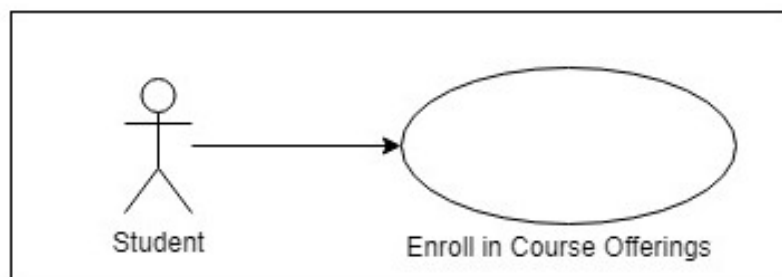DUSAD, Nipun Mukund
Student ID: 20468313
email: nmdusad

TASK 3:

Use Case: Enroll in Course Offerings

Brief Description: This use case describes how a student enrolls in the course offerings (sections).

Use-case Diagram

Use Case Diagram

Preconditions:
If the Student has not filtered the sections that he wants to enroll into, then he can enroll into all result scrapped.

Basic Flow:

{Begin Enrollment}

1. The use case begins when the Student chooses to enroll into the sections that he has filtered.

2. The system retrieves the data and displays the list of sections for enrolment.

{Enroll into sections}

3. If the Student changes the status of the checkbox of a section for enrolling in that section

      3.1 The system will clear the console and the filtered information is displayed

      {Change of Enrollment status}

      3.2 The system displays the list of enrolled sections.

The use case ends

Alternative flows:

A1: Dropping of sections

At {Enroll into sections}, if the Student unchecks a section's checkbox

>   1. The system erases the enrolment status of that section
>   2. The flow of events is resumed at {Enroll into sections}

A2: Change enrolment status

At {Change of enrolment status} if the Student searches or filters again

>   1. The system maintains the same enrolment status.
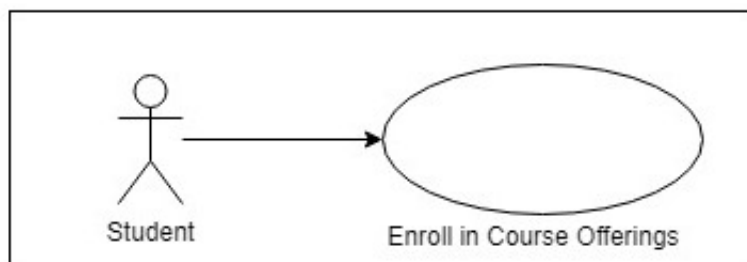>   2. The flow of events is resumed at {Begin enrollment}

TASK 4:

Use Case: Update Timetable

Brief Description: This use case describes how the timetable is updated by the system for the Student as per his enrollment status changes.

Use case diagram:

Use Case Diagram

Basic Flow:

{Empty timetable}

1. The use case begins when the Student changes his enrolment status

2. For each section that the Student has enrolled into

>   2.1 A block is created by the system in the timetable for that section

2.2. Each block contains both course code and section code in two lines.

2.3. The system ensures that blocks of the same section have the same colour while blocks with different sections have different colours.

2.4. If there is a time clash with another section

> 2.4.1 The system displays the boxes of the time clashed slot as overlapped.
>
> 2.4.2 The system displays the overlapped area in a different colour.

The use case ends.

Alternative flow:

A1. Invalid enrollment status

At {Empty timetable} if enrollment is not implemented correctly by the Student in the list

1. If there are less than 5 sections from the scrapped data
   1.1 All sections are enrolled by the system to the Student enrolment status.

2. If there are at least 5 sections from the scrapped data
   2.1 The first 5 sections of the scrapped data are enrolled by the system to the Student enrolment status.

3. The flow of events is resumed at {Empty timetable}