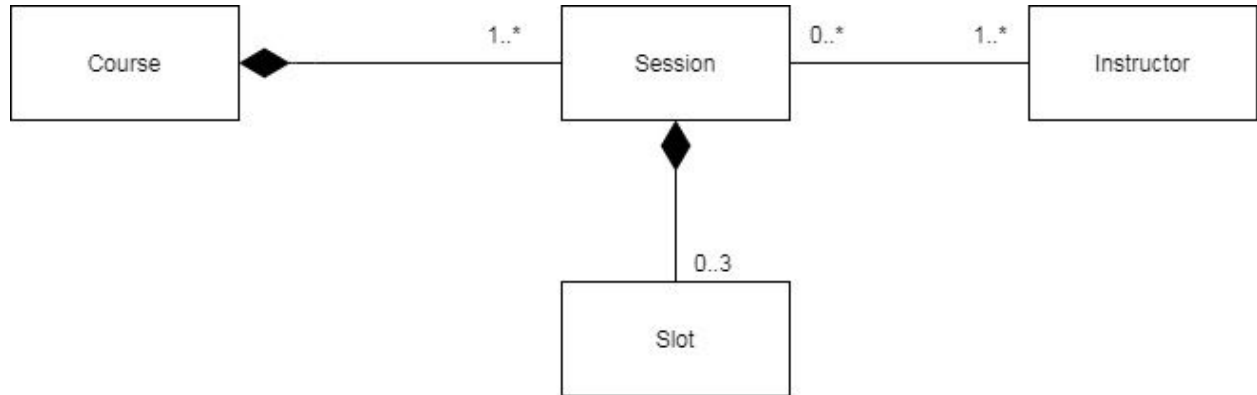


Comp3111 GP10 Use Case Specification

Data model diagram



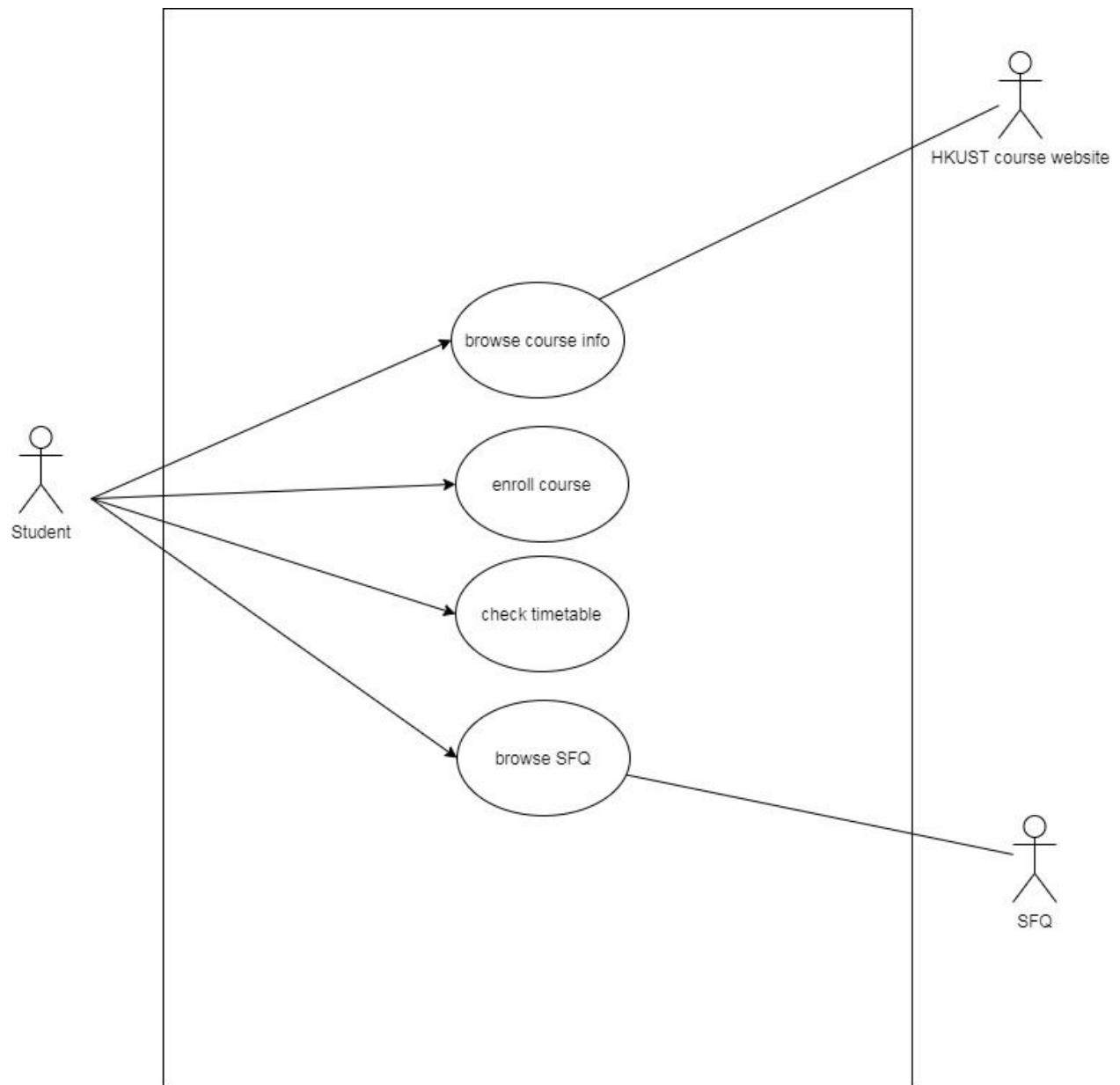
Course
subject : String course_code : String
display_course_name() get_sfq()

Session
section-ID : Integer section_code : String Enrolled : Boolean
display_session() enroll_state()

Slot
venue : String day : String start_time : String end_time : String

Instructor
name : String
get_sfq()

Use Case Diagram



Use Case: Browse course info

Brief Description

This use case describes how a student browse course info

Basic Flow

1. The use case begins when the Student actor browses course info.

{Enter Term}

2. The student indicates the term in which he would like to browse the courses.

{Select Scope of Search}

3. The student chooses the scope in which to search for courses
 - 3.1. If the student chooses to search for a specific subject
 - 3.1.1. Perform subflow **Search Specific Subject**.
 - 3.2. If the student chooses to search all subjects
 - 3.1.2. Perform subflow **Search All Subjects**.

{Apply Filter}

4. While the student chooses what filter to apply to filter course
 - 4.1. If the student checks the button Select All
 - 4.1.1. The system checks all checkboxes in the filter tab.
 - 4.1.2. The system change the Select All button to become De-select All button
 - 4.2. If the student checks the checkbox De-select All
 - 4.2.1 The system unchecks all checkboxes in the filter tab.
 - 4.2.2 The system changes the De-select All button to become Select All button.
 - 4.3. If the student chooses to check either the checkbox AM or PM
 - 4.3.1 The system displays courses that have a slot in AM or PM respectively
 - 4.4. If the student chooses to check both the checkbox AM and PM
 - 4.4.1 The system displays courses that have a slot starting at AM and ends in PM, or have a slot in AM and another slot in PM.
 - 4.5. If the student chooses to check the weekday checkboxes
 - 4.5.1 The system displays courses that have slots in the selected weekdays.
 - 4.6. If the students checks the checkbox Common Core
 - 4.6.1 The system displays courses that are 4Y CC.
 - 4.7. If the student checks the checkbox No Exclusion
 - 4.7.1 The system displays courses that do not define exclusion.
 - 4.8. If the student checks the checkbox With Labs or Tutorials
 - 4.8.1 The system displays courses that have labs or tutorials.

{View Courses}

5. The system displays the filtered courses from the search on the console.
6. The use case ends.

Subflows

S1: Search Specific Subject

1. The student clicks on the Main tab.
2. The student enters the subject to search for.
3. The student clicks the Search button
4. The system enquires the HKUST course website for course information.

S2: Search All Subjects

1. The student clicks on the All Subject Search tab.
2. The student clicks the All subject Search button.
3. The system displays progress of the search.
4. The system enquires the HKUST course website for course information.

Alternative Flows

A1: Request Failed

At **{Select Scope of Search}** if the request sent returned a 404 error, the term or subject entered are invalid

1. The system notifies the student of an error.
2. The flow of events is resumed at **{Select Scope of Search}**.

Use Case: Enroll courses

Brief Description

This use case describes how a student enroll course

Preconditions

The system successfully scrapes the course info.

Basic Flow

1. The use case begins when the student enrolls courses.
2. The student clicks on the List tab.
3. The system displays the filter result on the List tab.
4. The student checks the enroll checkbox of the section in which he would like to enroll.
 - 4.1. If the enroll checkbox of the section is not checked before
 - 4.1.1 The system checks the enrolled checkbox of the selected box.
 - 4.1.2. The system adds enrollment status of the section
 - 4.2. If the enroll checkbox of the section is checked before
 - 4.2.1 The system unchecks the enrolled checkbox of the selected box.
 - 4.2.2. The system erases the enrollment status of the section.
5. The system displays the enroll section.
6. The use case ends.

Use Case: View timetable

Brief Description

This use case describes how a student view timetable of enrolled course

Basic Flow

1. The use case begins when the student view timetable.
2. The student clicks on the Time Table tab.
3. The system displays the timetable of enrolled courses.
4. The use case ends.

Use Case: Browse SFQ

Brief Description

This use case describes how a student browses SFQ data of courses or instructors.

Precondition

The subflow ***Search All Subjects*** from use case Browse course info need to be executed first.

Basic Flow

1. The use case begins when the student browses SFQ data.
2. The student clicks on the SFQ tab.
3. The student chooses whether to view SFQ of enrolled courses or of instructors.
 - 3.1. If the student chooses to view SFQ of enrolled courses
 - 3.1.1. The system enquires the SFQ system for SFQ scores
 - 3.1.2. The system displays average SFQ score of each enrolled courses
 - 3.2. If the student chooses to view SFQ of instructor
 - 3.2.1. The system enquires the SFQ system for SFQ scores
 - 3.2.2. The system displays the average SFQ score of each instructor over sessions they taught.
4. The use case ends.