

*Supplement

1 Database Design



2 Requirement List

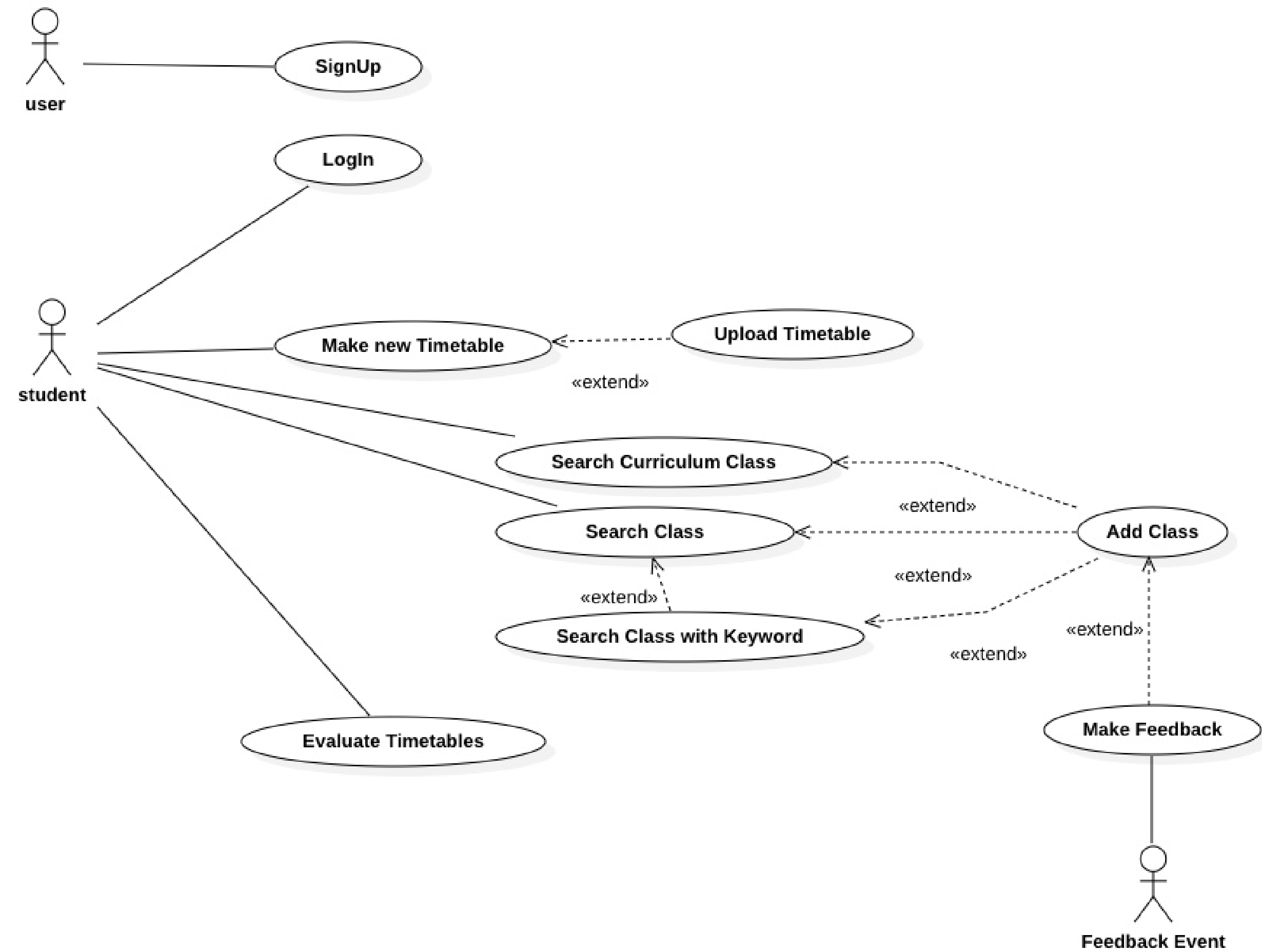
Functional

- | | | |
|----|--|-------------------------|
| 1 | User signs up by enteringn their school ID, password, major, and subject already taken. | Sign Up |
| 2 | Student logs in using their school ID, password. | Log In |
| 3 | Student selects a subject from compulsory class list and make new timetable with the selected classes. | Make New Timetable |
| 4 | Student searches for recommended classes in the curricu- lum. | Search Curriculum Class |
| 5 | Student searches for a class with class name, professor, area. | Search Class |
| 6 | Student searches for classes with selecting keywords. | Search Class with Key- |
| 7 | Student clicks class to add the class into her timetable. | word |
| 8 | Student uploads timetable to shared board. | Add Class |
| 9 | Student evaluate timetables in the board with emoticon. | Upload Timetable |
| 10 | Each time a student adds or deletes a class, feedback event provide proper feedback. | Evaluate Timetables |
| | | Make Feedback |

Non-Functional

- 1 Major compulsory subjects and liberal arts compulsory subjects suitable for the current status of the member (major, grade, semester, already enrolled subjects) will be printed as a list of compulsory classes for the course.
- 2 The list of compulsory classes is sorted by the importance of the subject, with the area name, subject name, professor name, lecture time, and classroom output.
- 3 Major compulsory subjects, major elective subjects, and liberal arts subjects that fit the current status of the member are printed as a list of curriculum recommendations.
- 4 The list of curriculum recommendations is sorted by the importance of the subject, with the area name, subject name, professor name, lecture time, and classroom output for each subject.
- 5 Each time a member adds or subtracts a lecture, the timetable is automatically saved.

3 Use Case Diagram



4 Use Case Description

1 Use Case Sign Up

Actors	User
Pre-Conditions	User applied for sign-up.
Post-Conditions	User's information is stored in data and becomes a member.
Actor Action	System Response
1. The actor enters studentID,PW,major,-year.	2. Perform Check verification for ID and display list of required liberal arts.
3. Selects courses already taken.	4. Present a message confirming that the actor have been signed up.

2 Use Case Log In

Actors	Student
Pre-Conditions	Student accessed website.
Post-Conditions	Student uses the system of website.
Actor Action	System Response
1. The actor enters studentID,PW.	2. Perform Check verification of ID,PW, and allow using the system of website.

3 Use Case Make new Timetable

Actors	Student
Pre-Conditions	Student logged in and does not have timetable for this semester.
Post-Conditions	Student makes timetable with selected required classes.
Actor Action	System Response
	1. List all required classes for the student's major except those already taken.
2. The actor selects desired classes and click done.	3. Show page of new timetable with the selected classes.

4 Use Case Search Curriculum Class

Actors	Student
Pre-Conditions	Student created timetable.
Post-Conditions	Lists of recommended classes in curriculum would display.
Actor Action	System Response
	1. List classes that be required for curriculum with priority sorted by importance.
2. Selectes category.	3. Display a list of selected category with priority sorted by class name.

4 Use Case Description

5 Use Case Search Class

Actors	Student
Pre-Conditions	Student created timetable.
Post-Conditions	Lists of proper classes would display.
Actor Action	System Response
1. The actor selects course.	2. List all classes for that course.
3. Enters the name of class or professor.	4. Display a list of all classes for that course include the name.

6 Use Case Search Class with Keyword

Actors	Student
Pre-Conditions	Student created timetable.
Post-Conditions	Lists of proper classes would display.
Actor Action	System Response
1. The actor selects keyword.	2.List all classes for the keyword.

7 Use Case Add Class

Actors	Student
Pre-Conditions	Student searched classes and system displayes classes.
Post-Conditions	Selected class displays in the timetable.
Actor Action	System Response
1. The actor selects class.	2. Ask actor whether add it or not.
3. Selects add.	4. Display timetable including the class.

8 Use Case Upload Timetable

Actors	Student
Pre-Conditions	Student created timetable.
Post-Conditions	Image of member's timetable be shared to timetable board.
Actor Action	System Response
1. The actor click button of uploading timetable.	2. Ask actor whether upload it or not.
3. Select yes.	4. Show the post of the capture image of timetable.

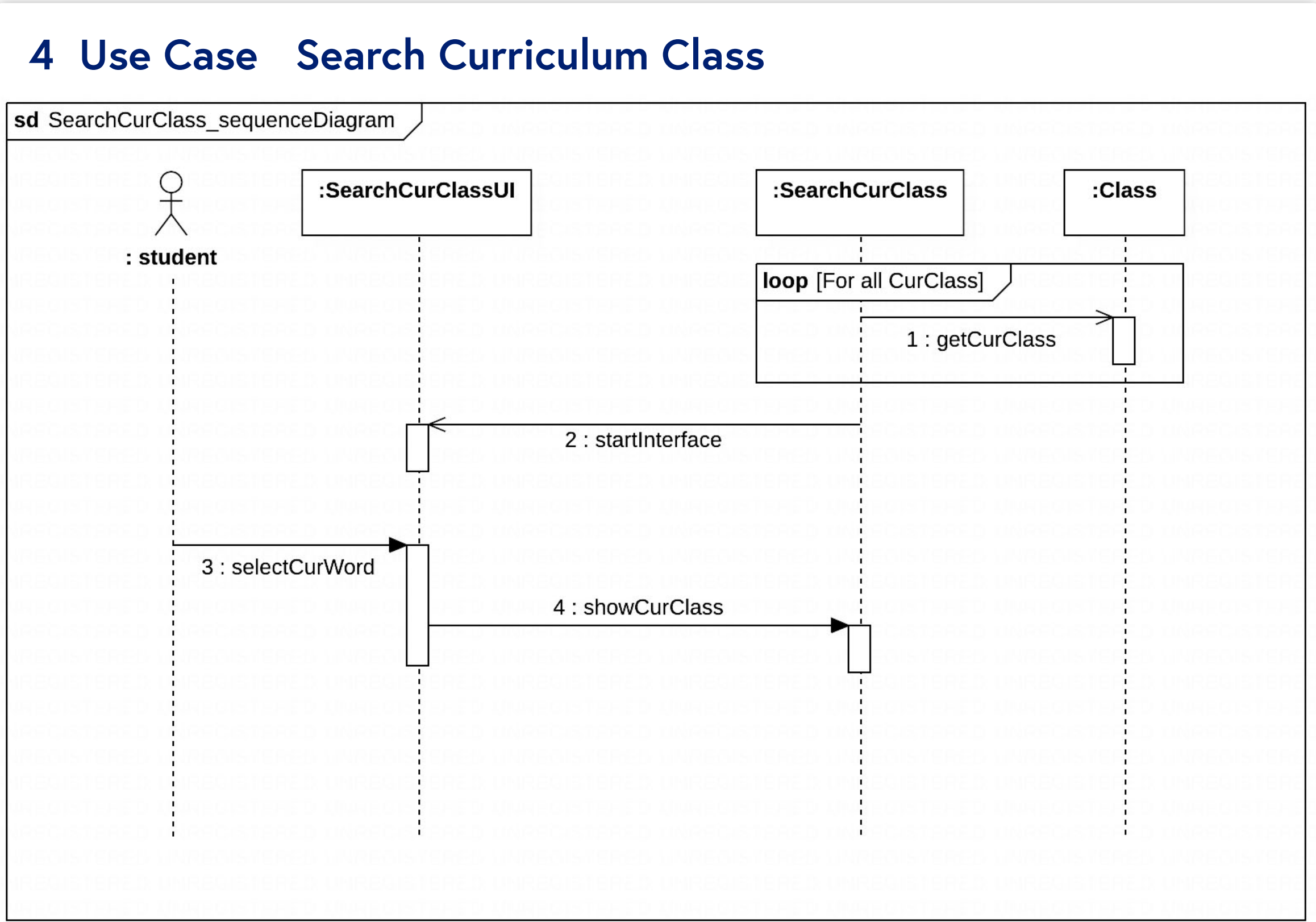
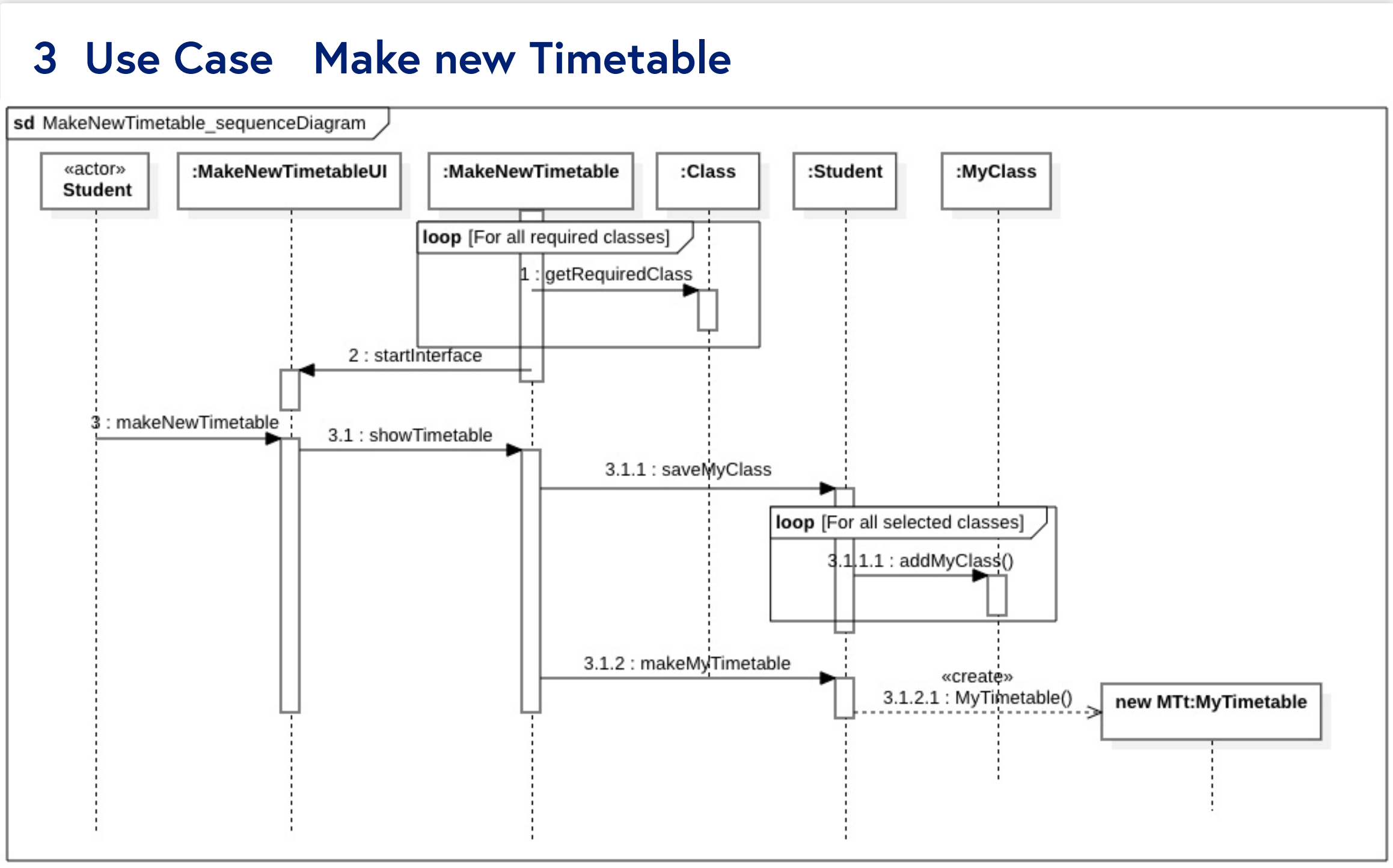
4 Use Case Description

9 Use Case Evaluate Timetable

Actors	Student
Pre-Conditions	Student visited timetable board.
Post-Conditions	Display total evaluation of the post.
Actor Action	System Response
1. The actor selects icon for board.	2. Display timetable board with timetable list.
3. Selects a timetable.	4. Display emoticon icons.
5. Selects an emoticon.	6. Display the emoticon for a moment and display total amount of emoticon of other members and the actor.

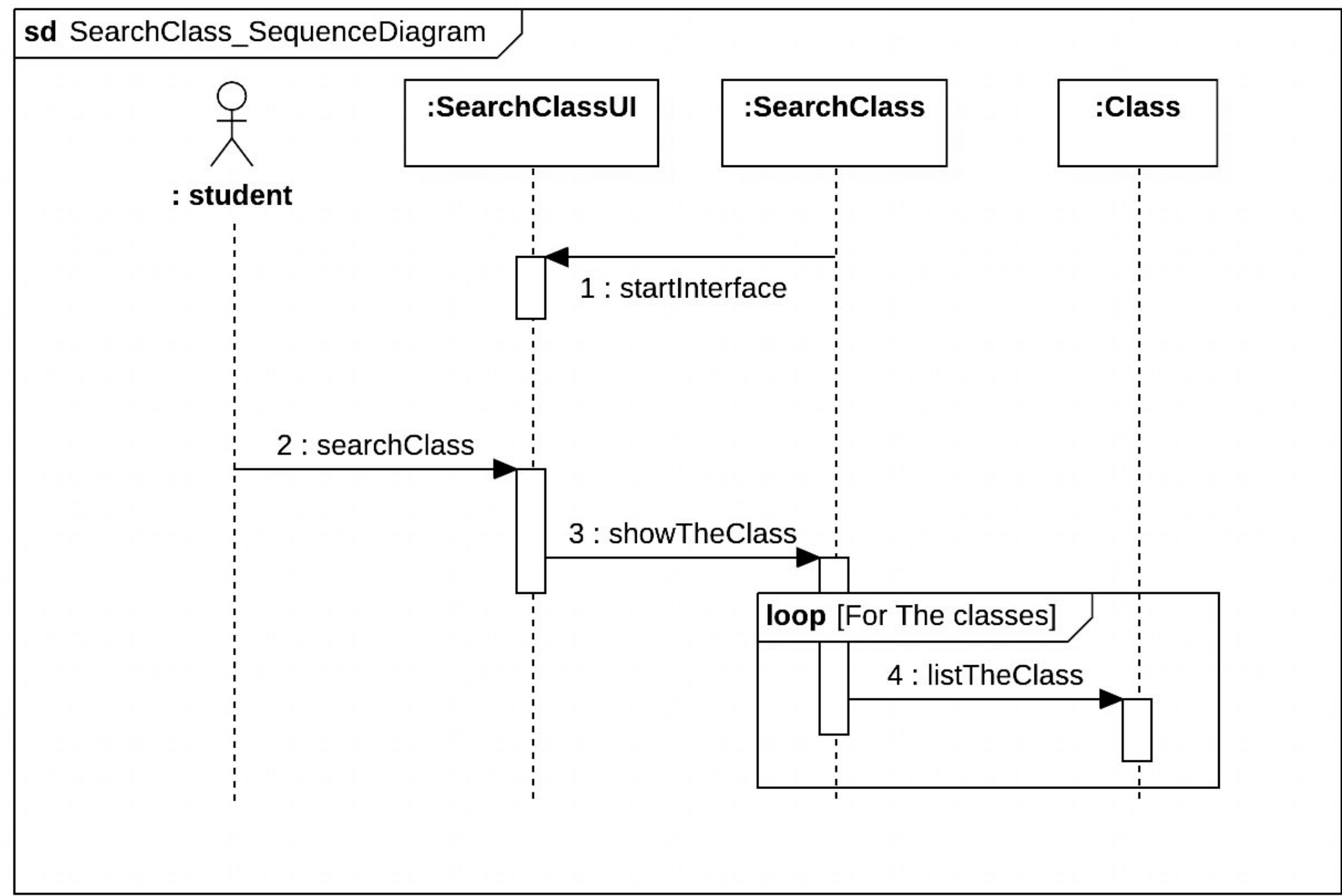
5 Sequence Diagram

* we didn't draw for use case 1,2 because they were developed in Spring Security.

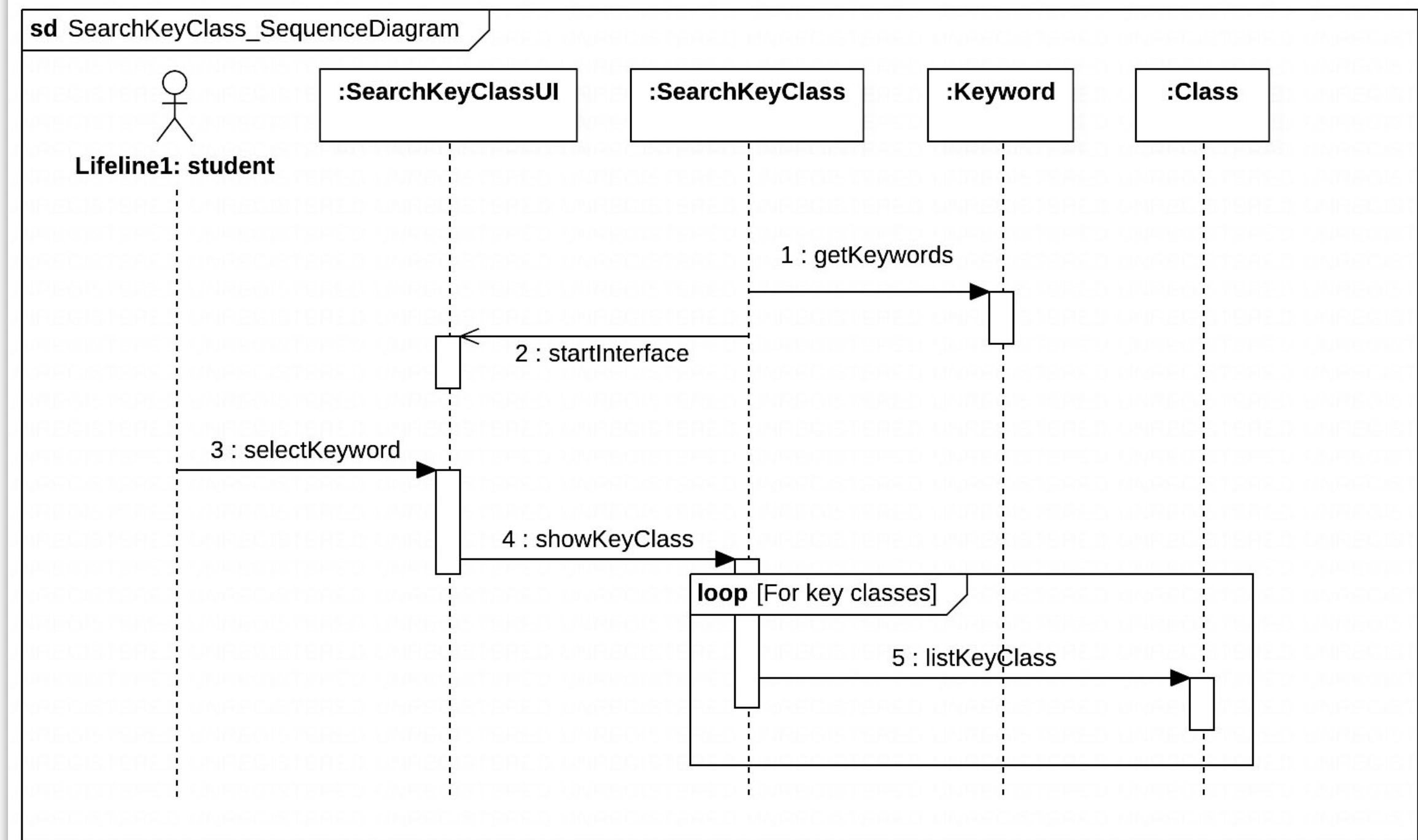


5 Sequence Diagram

5 Use Case Search Class

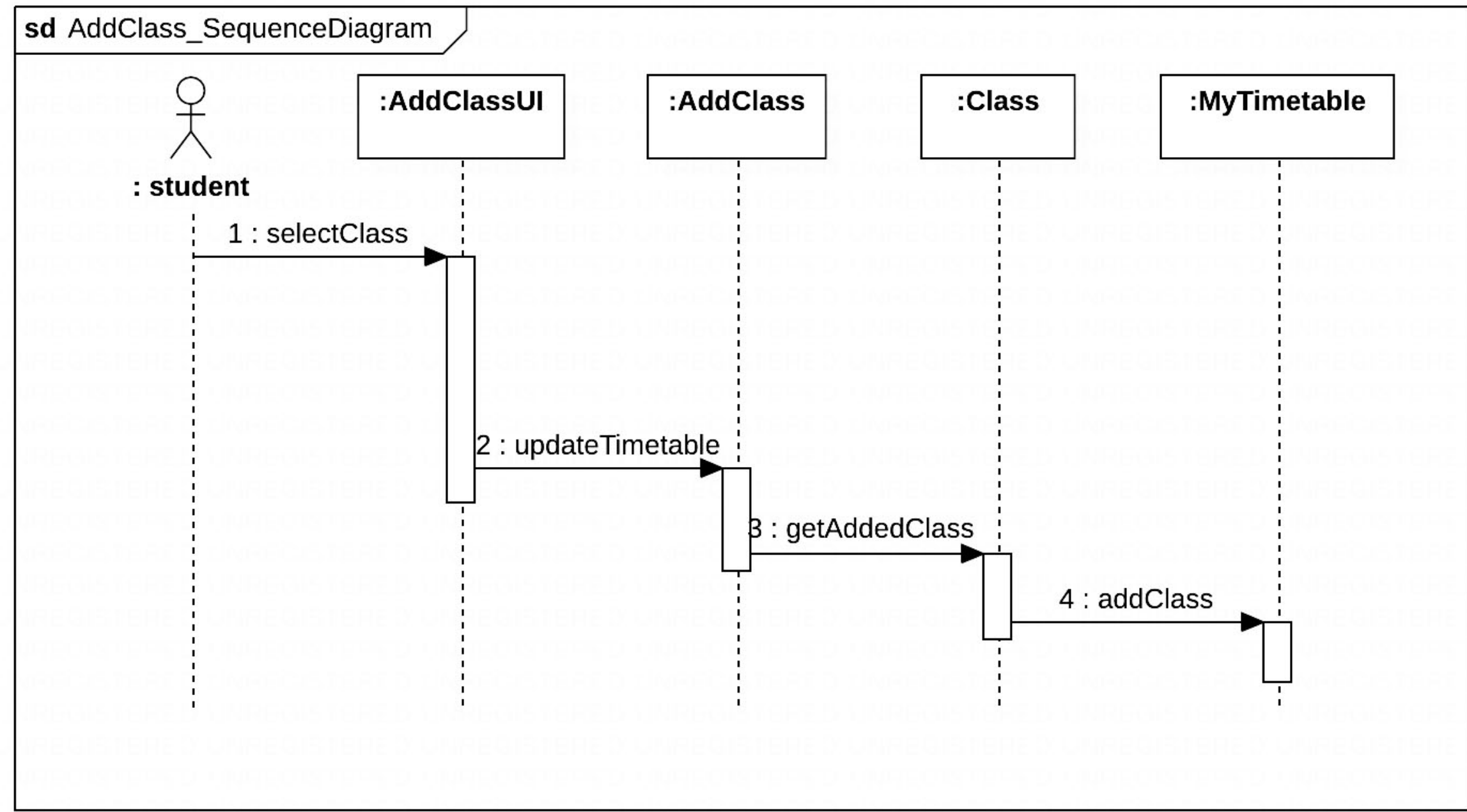


6 Use Case Search Class with Keyword

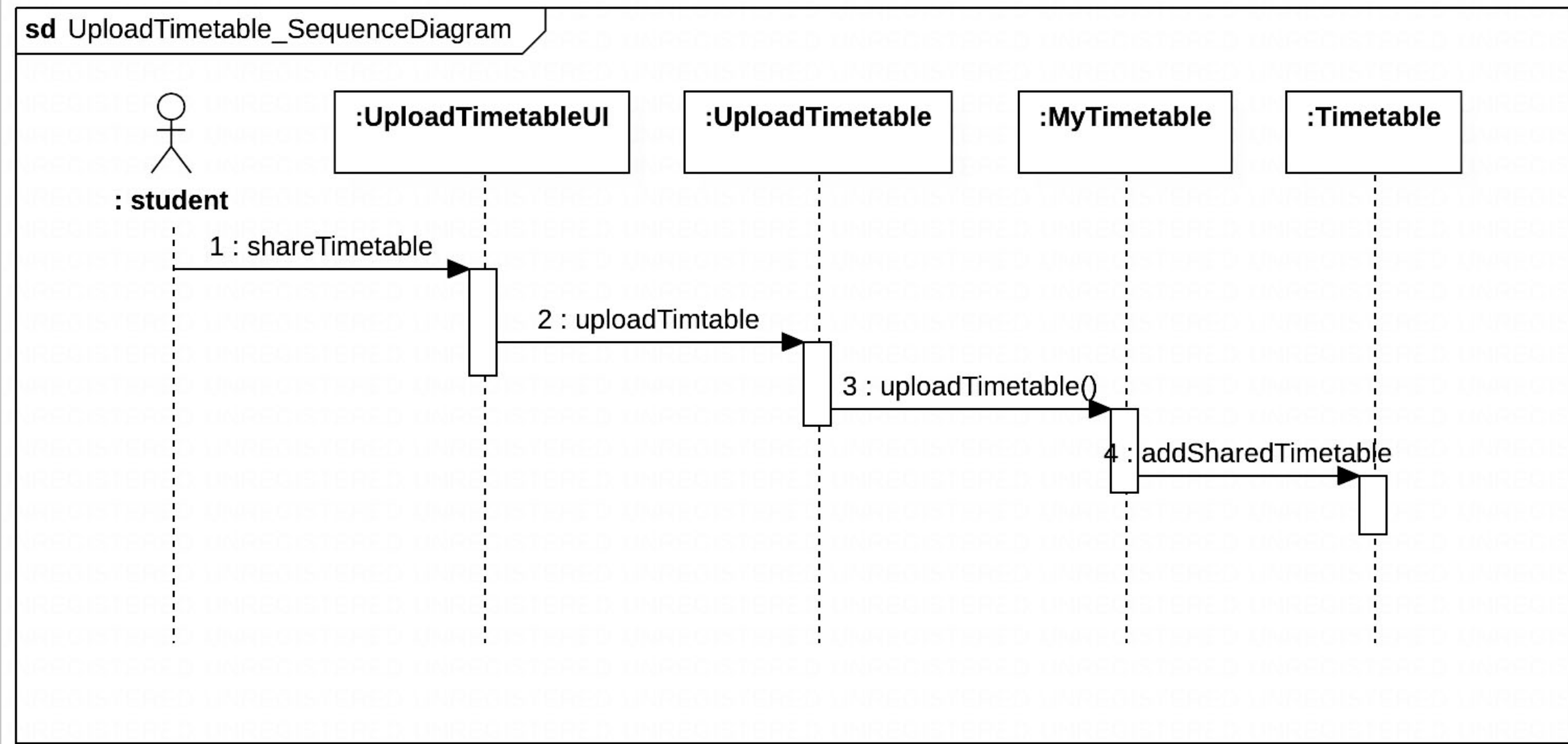


5 Sequence Diagram

7 Use Case Add Class

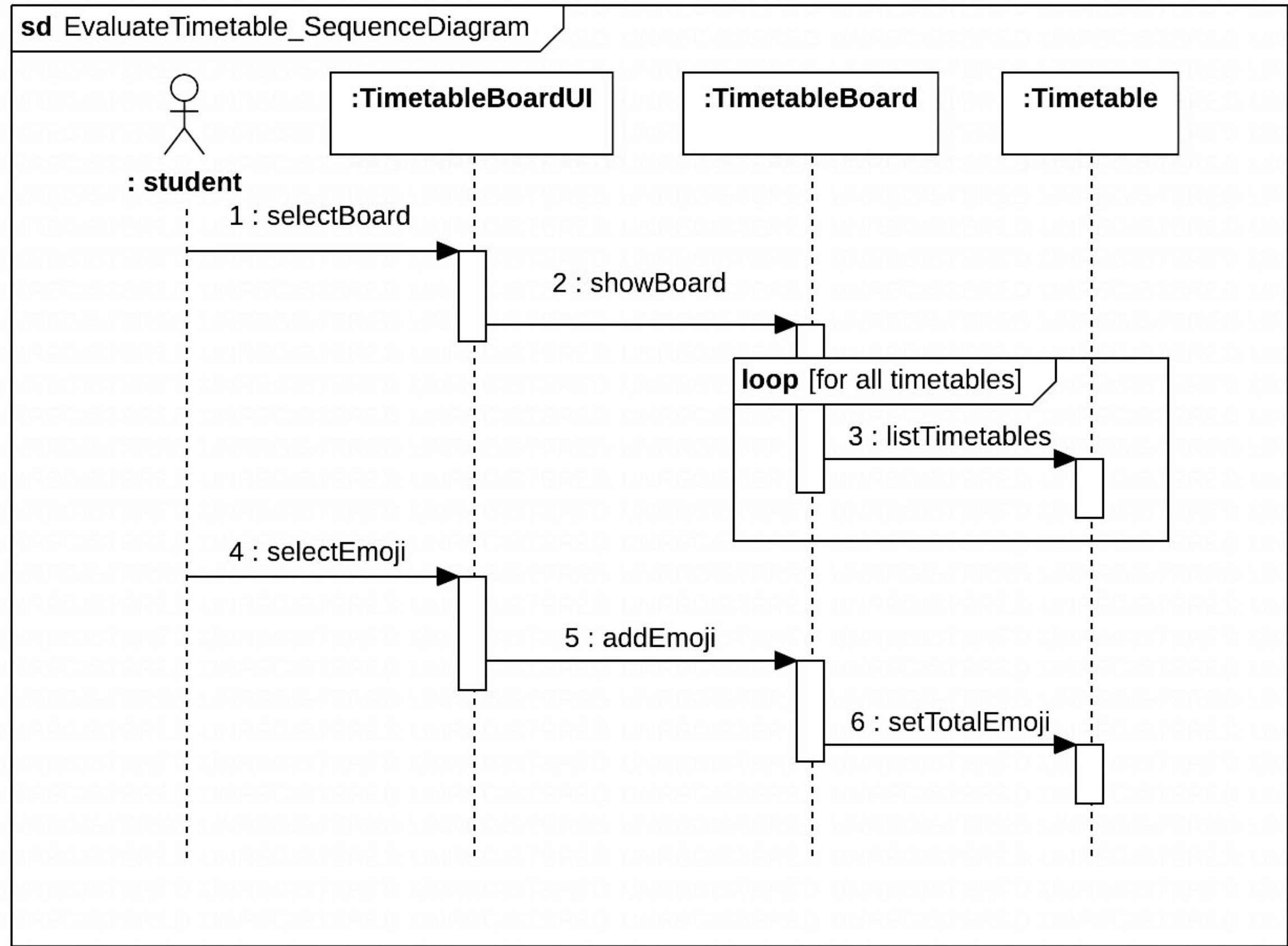


8 Use Case Upload Timetable



5 Sequence Diagram

7 Use Case Add Class



6 Class Diagram

