

## Project part 1: UML diagrams

Online University Registration (OUR) system

Group 5:

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Activity diagram was drafted by David and revised by John

Use Case diagram was made by David

Class/object diagrams were made by John

CRC cards were made by John

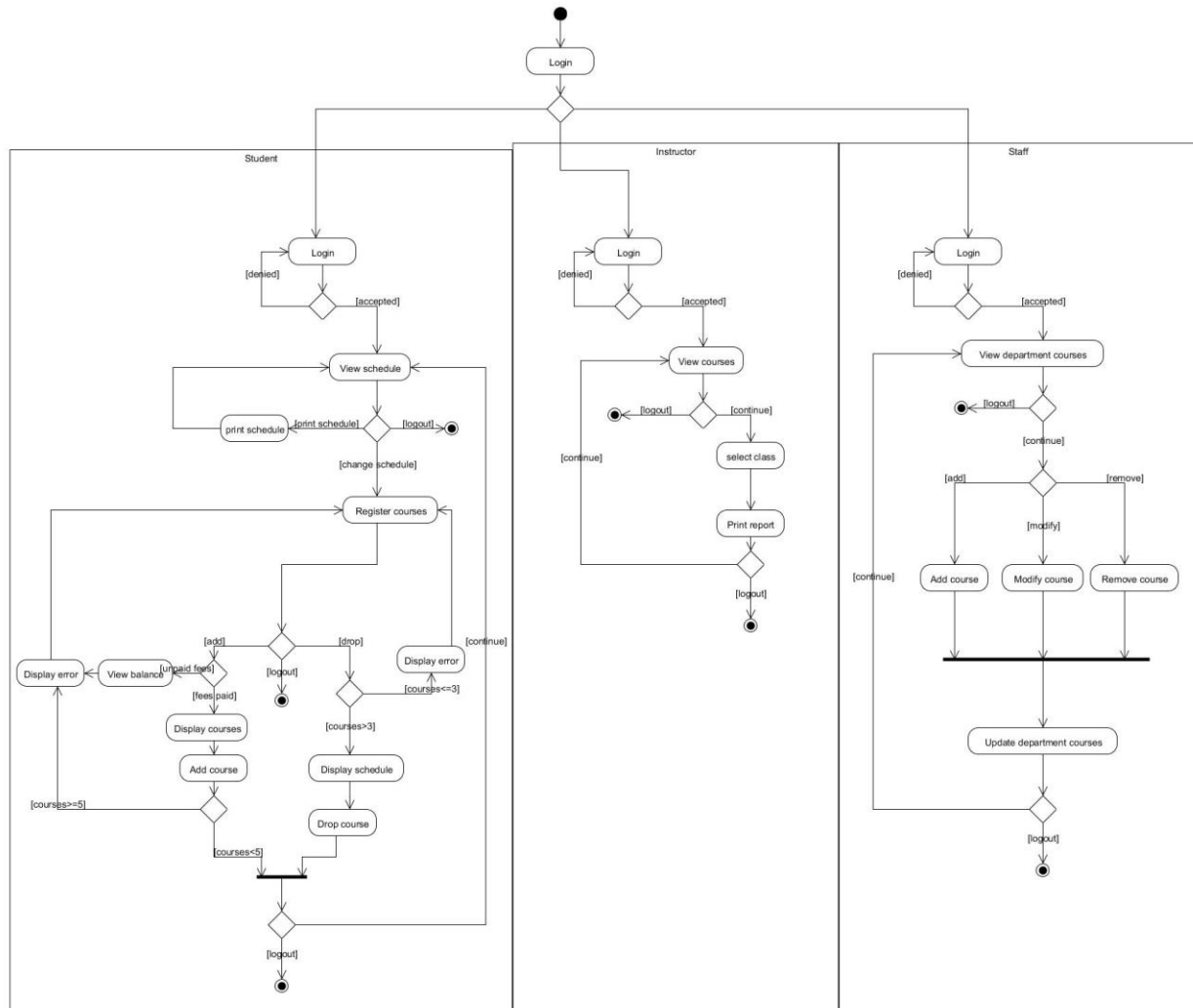
Sequence diagrams were made by David

State machine diagrams were made by David

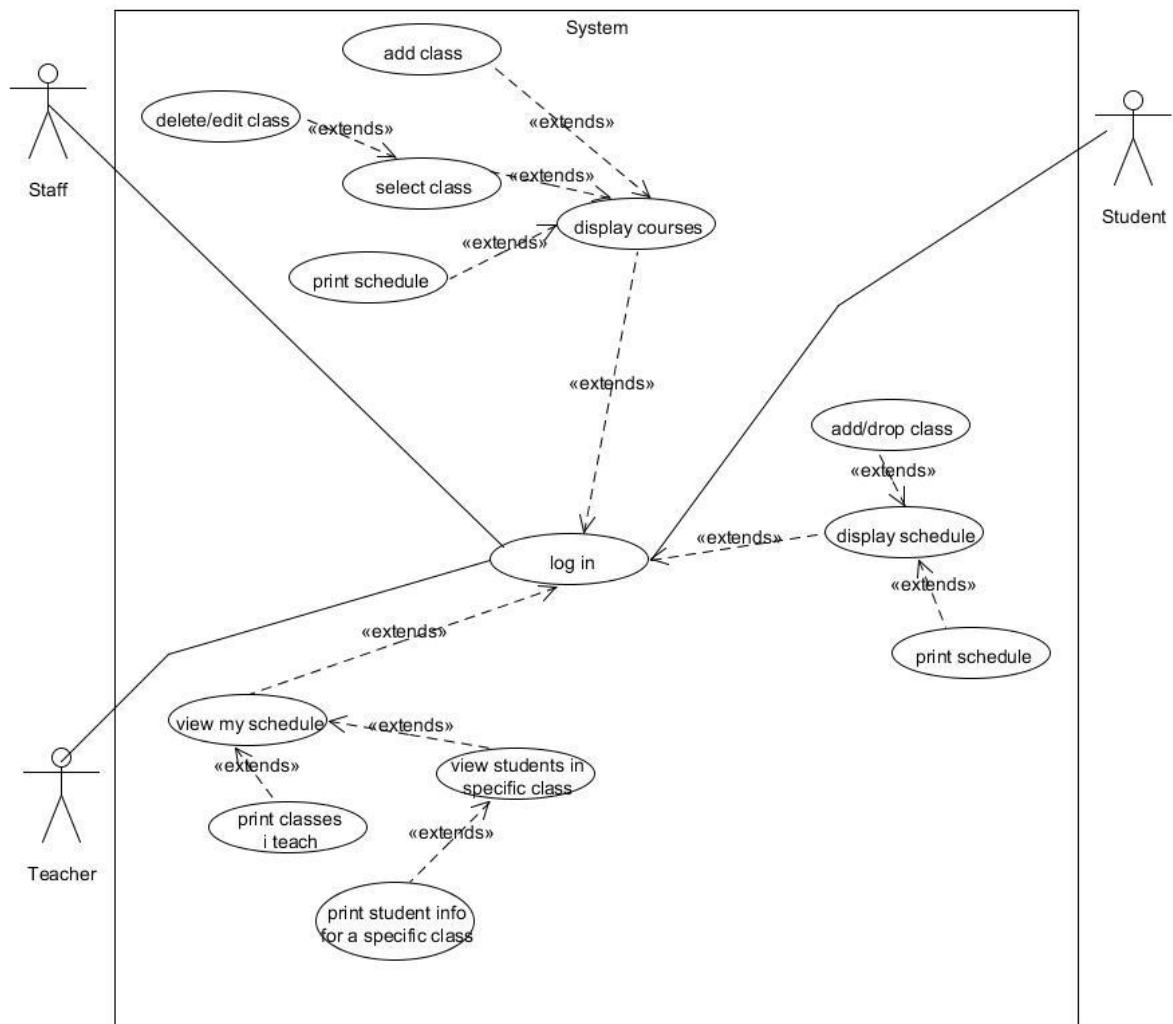
We met once to discuss activity/use case diagrams, and once to discuss the object diagram.

We exchanged files and ideas through email and text message

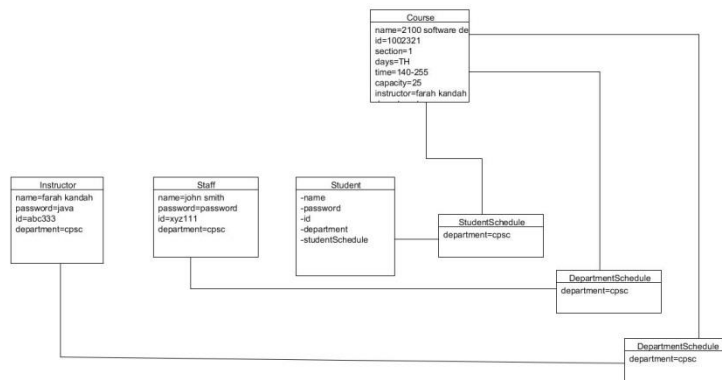
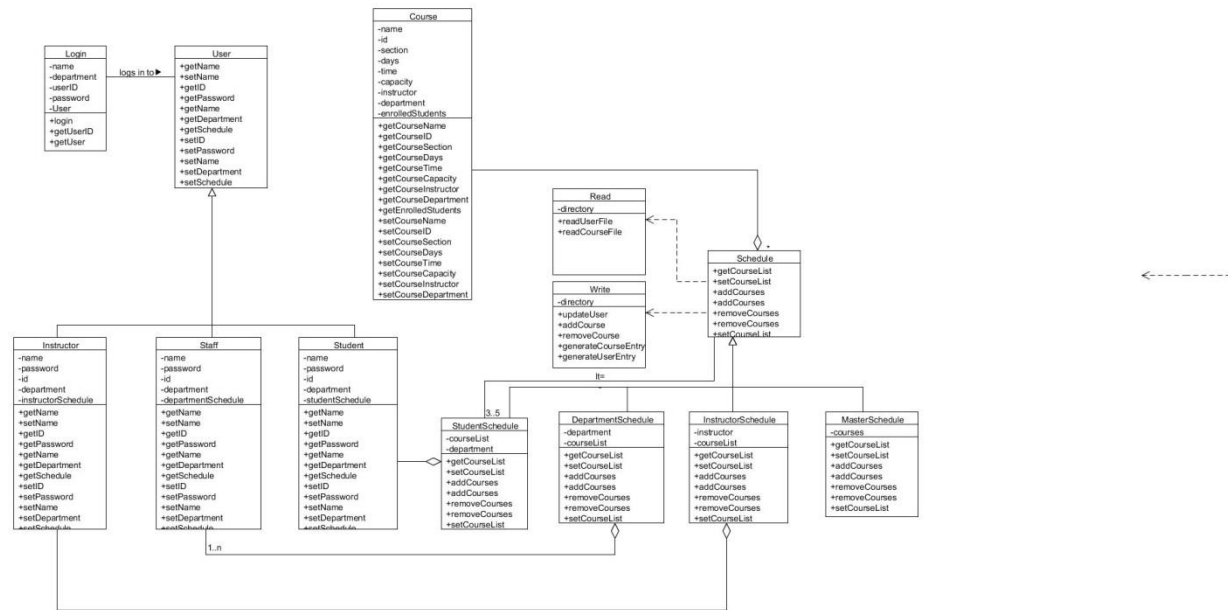
## Activity Diagram



Use case diagram:



## Class/object diagrams:



## CRC cards

<b>Login</b>	
Log in the User	User

<b>User</b>	
Hold the name, password, department, and ID of the user	
Log the user out	

<b>Staff</b>	
Add Courses to Department Schedule	User
Remove Courses from Department Schedule	DepartmentSchedule
Modify Courses in the Department Schedule	MasterSchedule
View the Department Schedule	Course

<b>Student</b>	
View the Student's Schedule	StudentSchedule
View Available Courses	MasterSchedule
Add Course to Student's Schedule	Course
Drop Course from Student's Schedule	User

<b>Instructor</b>	
View Instructor's Schedule	InstructorSchedule
Print reports	DepartmentSchedule
	User

<b>Course</b>	
Hold the name, course ID, section, capacity, time, Instructor, and enrolled students of the course	

<b>MasterSchedule</b>	
Hold all the Courses for the entire University	Course

<b>StudentSchedule</b>	
Hold all of the Courses for a Student	Course
	Student
	MasterSchedule

<b>DepartmentSchedule</b>	
Hold Courses for a Department	Course
Update the Master Schedule with Courses added by Staff	MasterSchedule
	Staff

<b>InstructorSchedule</b>	
Hold the Courses that an Instructor teaches	Course
	Instructor
	DepartmentSchedule

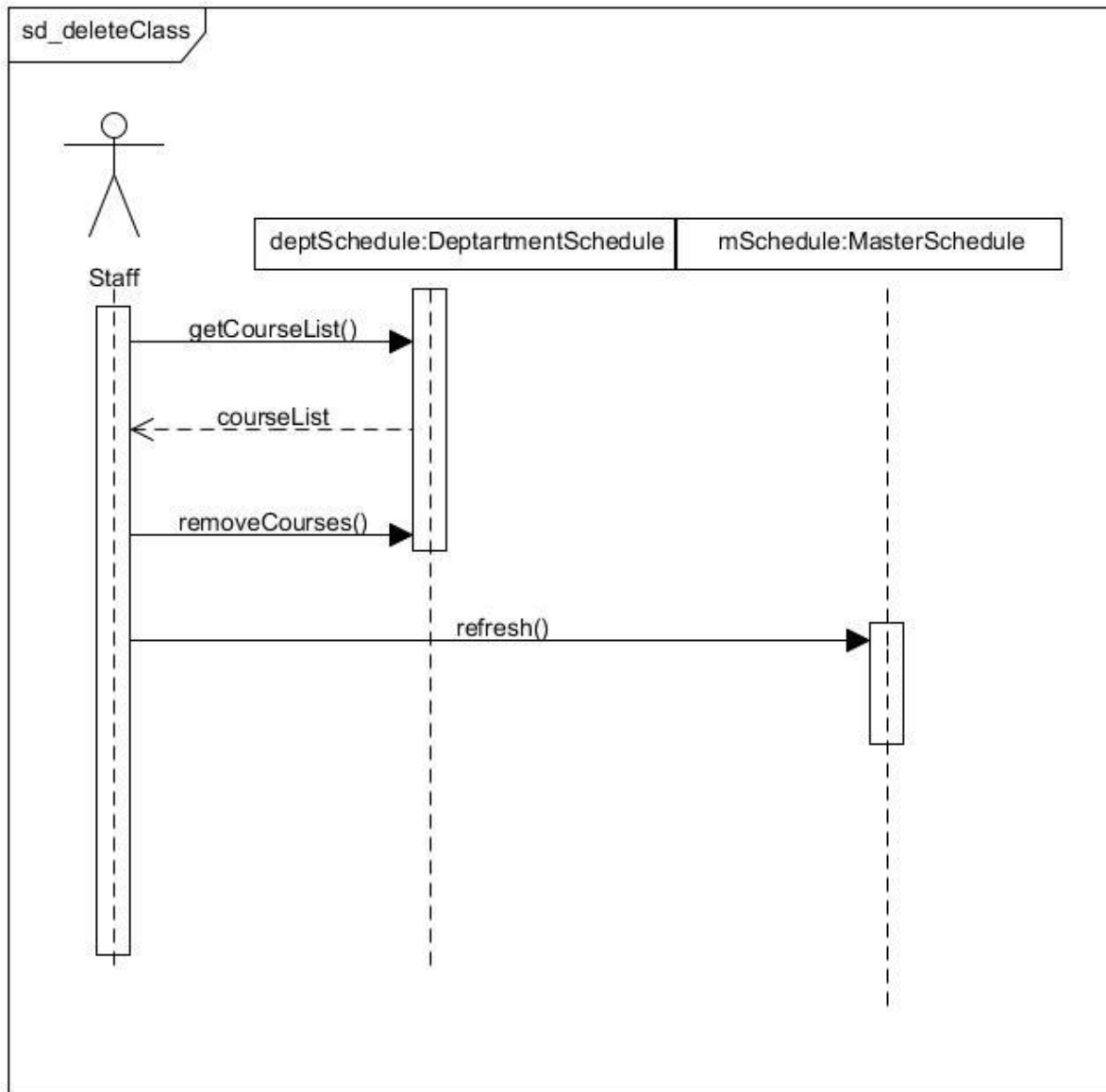
<b>Read</b>	
Read from data files	MasterSchedule
	StudentSchedule

	InstructorSchedule
	StaffSchedule

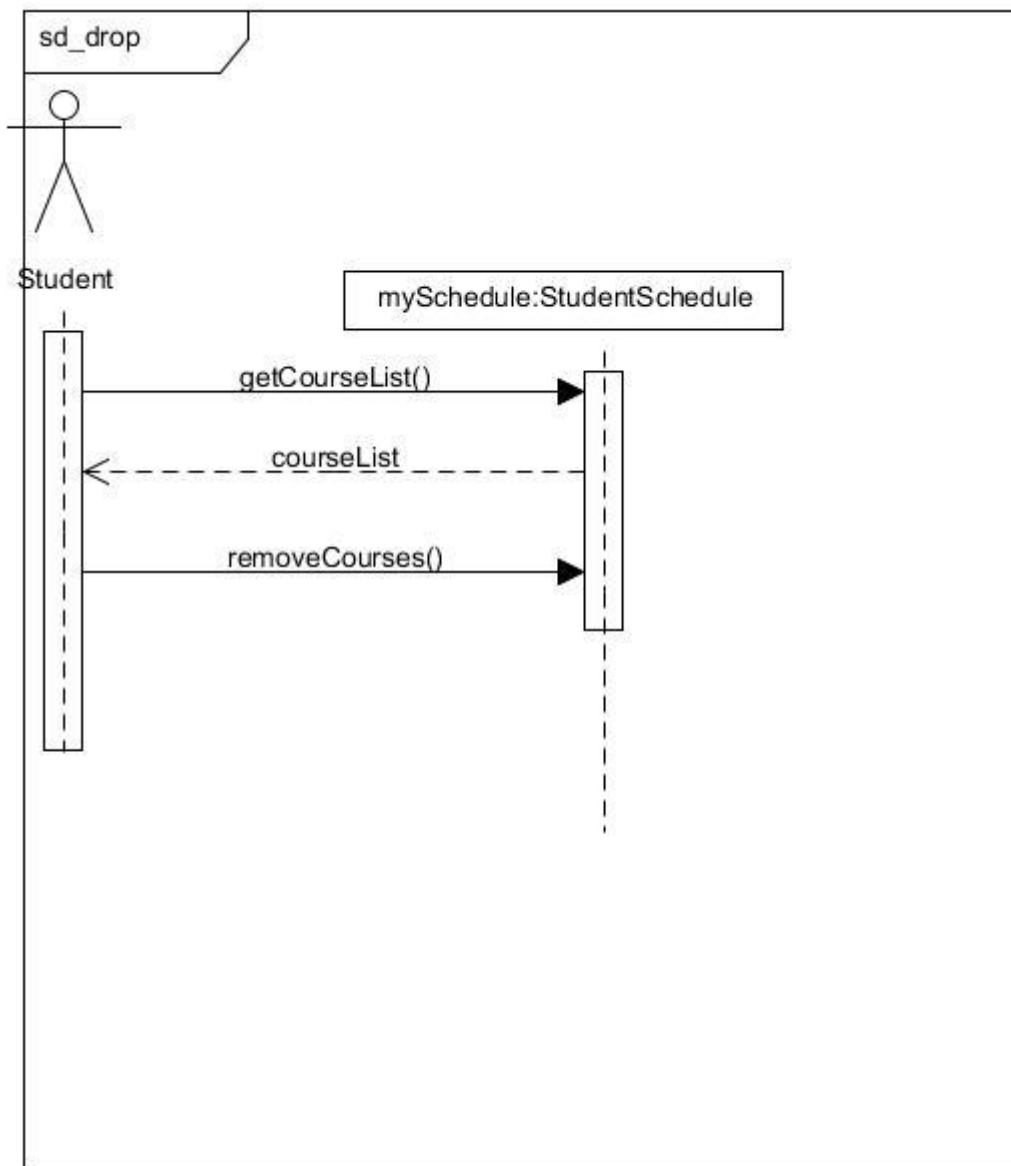
<b>Write</b>	
Make changes to data file	MasterSchedule
	StudentSchedule
	InstructorSchedule
	StaffSchedule



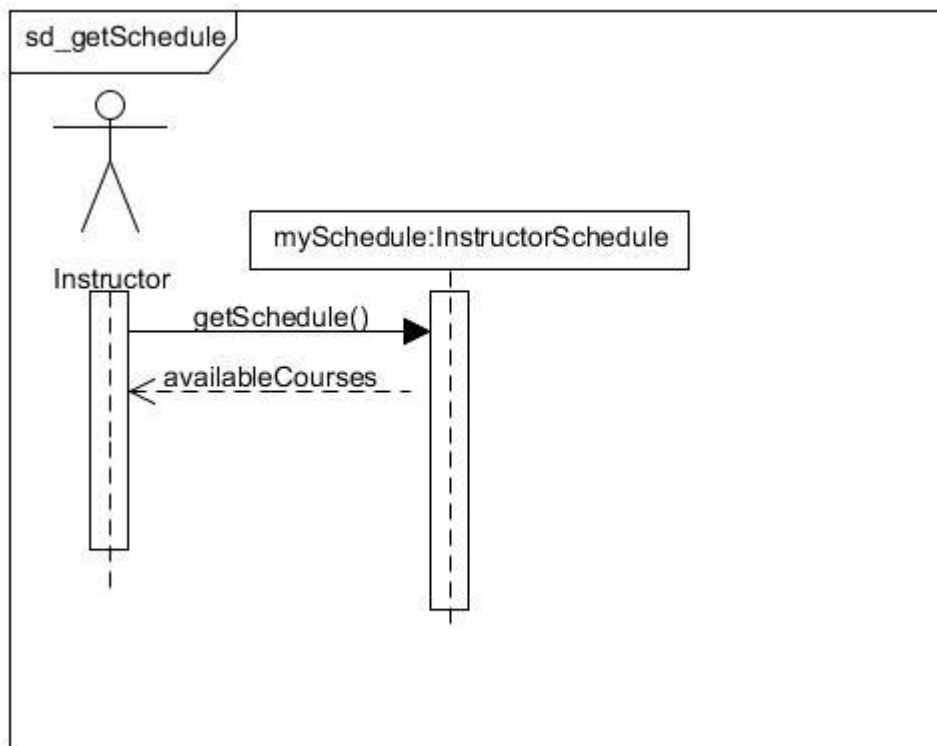
Sequence diagrams:



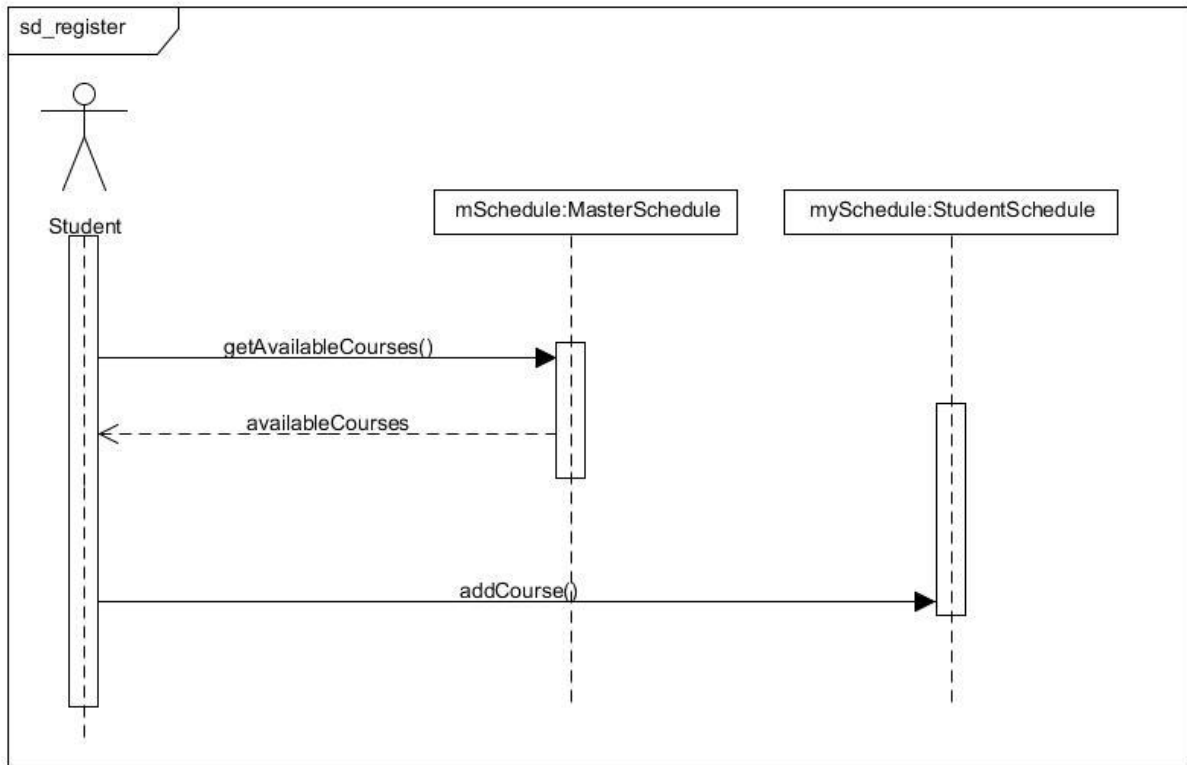
This sequence diagram is for when a member of the staff wants to delete a class. The staffmember gets a list of classes in the department, and then deletes the course from the schedule. The master schedule is then updated



If the student wants to drop a class, calls for his schedule, which is returned to him. The system then checks the number of enrolled courses to make sure he doesn't drop below 3 classes. He then drops the class, which updates the master schedule, which deducts a student from the Course object



If an instructor wants to print out information about a course he is teaching, he will get his schedule. He then calls the report for his schedule, and then prints it out.



If the student wants to register for a class, his account is checked for any unpaid fees. It also then makes sure he won't break the 5 class limit. The master schedule is then presented to him, and he may register for one of the courses.

State machine diagrams:

