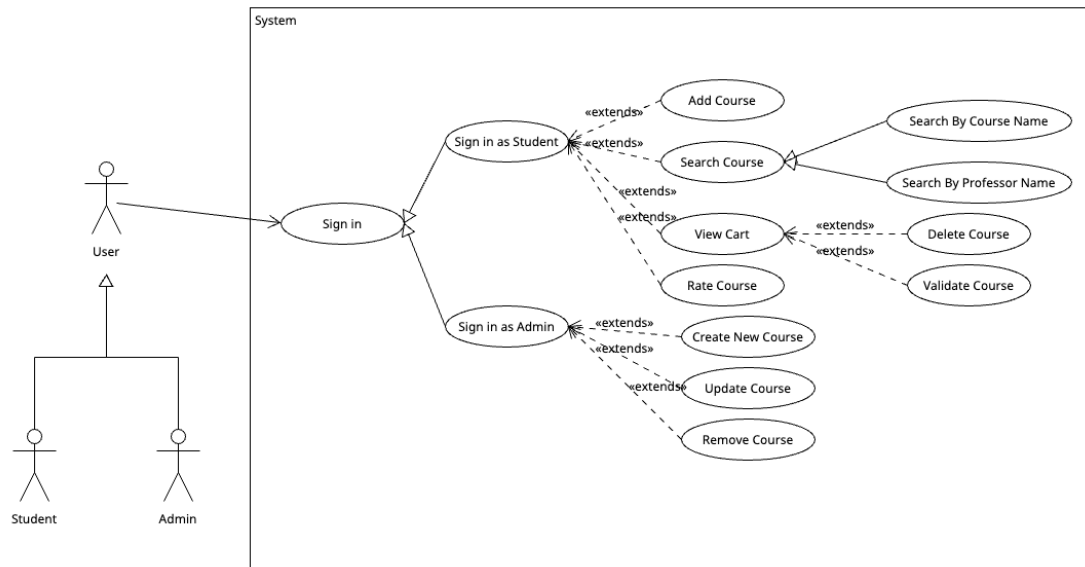


Project UML Diagrams

1. Use Case Diagram



Description of Use Cases:

UC Reference Name/Number: UC1: Sign in	
Overview	Allow a user to sign in to the system using their credential.
Related use cases:	Sign in as Student, Sign in as Admin
Actors:	User (Student, Admin)
Pre Conditions	The user must have a valid account.
Post Conditions	The user is authenticated and signed in.

UC Reference Name/Number: UC2: Sign in as Student	
Overview	Allows a student to sign in to the system using their credentials.
Related use cases:	Sign in, Add Course, Search Course, View Cart, Rate Course
Actors:	Student
Pre Conditions	The student must have a valid account.
Post Conditions	The student is authenticated and signed in.

UC Reference Name/Number: UC3: Sign in as Admin	
Overview	Allows an admin to sign in to the system using their credentials.
Related use cases:	Sign in, Create New Course, Update Course, Remove Course
Actors:	Admin
Pre Conditions	The admin must have a valid account.
Post Conditions	The admin is authenticated and signed in.

UC Reference Name/Number: UC4: Add Course	
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Overview	Allows a student to add a course to their cart.
Related use cases:	Sign in as Student
Actors:	Student
Pre Conditions	The student is signed in and viewing courses.
Post Conditions	The course is added to the cart.

UC Reference Name/Number: UC5: Search Course	
Overview	Allows a student to search for courses by name or professor.
Related use cases:	Sign in as Student, Search By Course Name, Search By Professor Name
Actors:	Student
Pre Conditions	The student is signed in.
Post Conditions	The search results are displayed.

UC Reference Name/Number: UC6: View Cart	
Overview	Allows a student to view the courses in their cart.
Related use cases:	Sign in as Student, Delete Course, Validate Course
Actors:	Student
Pre Conditions	The student is signed in.
Post Conditions	The cart contents are displayed.

UC Reference Name/Number: UC7: Rate Course	
Overview	Allows a student to rate a completed course.
Related use cases:	Sign in as Student
Actors:	Student
Pre Conditions	The student has completed the course.
Post Conditions	The course rating is updated.

UC Reference Name/Number: UC8: Create New Course	
Overview	Allows an admin to add a new course to the system.
Related use cases:	Sign in as Admin
Actors:	Admin
Pre Conditions	The admin is signed in.
Post Conditions	The new course is added to the system.

UC Reference Name/Number: UC9: Update Course	
Overview	Allows an admin to update details of an existing course.
Related use cases:	Sign in as Admin
Actors:	Admin
Pre Conditions	The admin is signed in.
Post Conditions	The course details are updated.

UC Reference Name/Number: UC10: Remove Course	
Overview	Allows an admin to remove a course from the system.
Related use cases:	Sign in as Admin
Actors:	Admin
Pre Conditions	The admin is signed in.
Post Conditions	The course is removed from the system.

UC Reference Name/Number: UC11: Delete Course	
Overview	Allows a student to delete a course from their cart.
Related use cases:	View Cart
Actors:	Student
Pre Conditions	The student is viewing their cart.
Post Conditions	The course is removed from the cart.

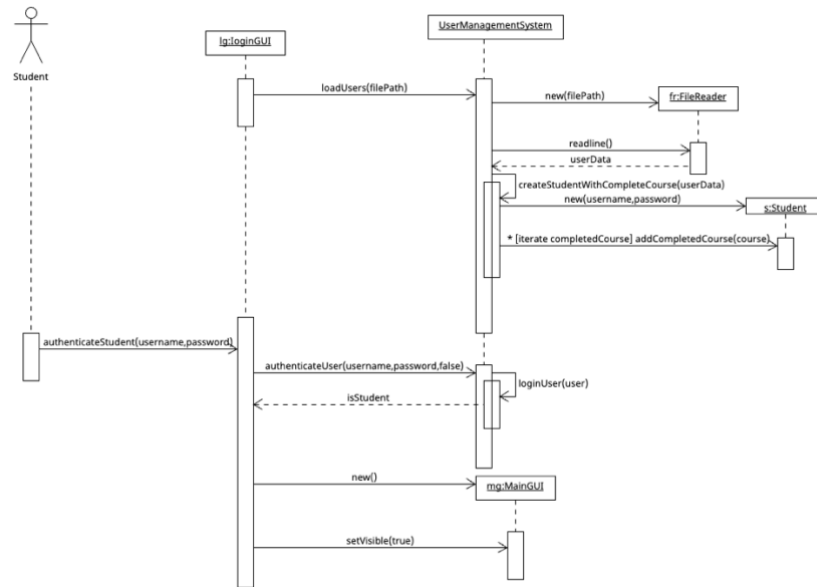
UC Reference Name/Number: UC12: Validate Course	
Overview	Allows a student to validate their course schedule for conflicts.
Related use cases:	View Cart
Actors:	Student
Pre Conditions	The student is viewing their cart.
Post Conditions	The validation result of the course schedule is shown.

UC Reference Name/Number: UC13: Search by Course Name	
Overview	Allows a student to search for courses by course name.
Related use cases:	Search Course
Actors:	Student
Pre Conditions	The student is searching for courses.
Post Conditions	The search results for course name are displayed.

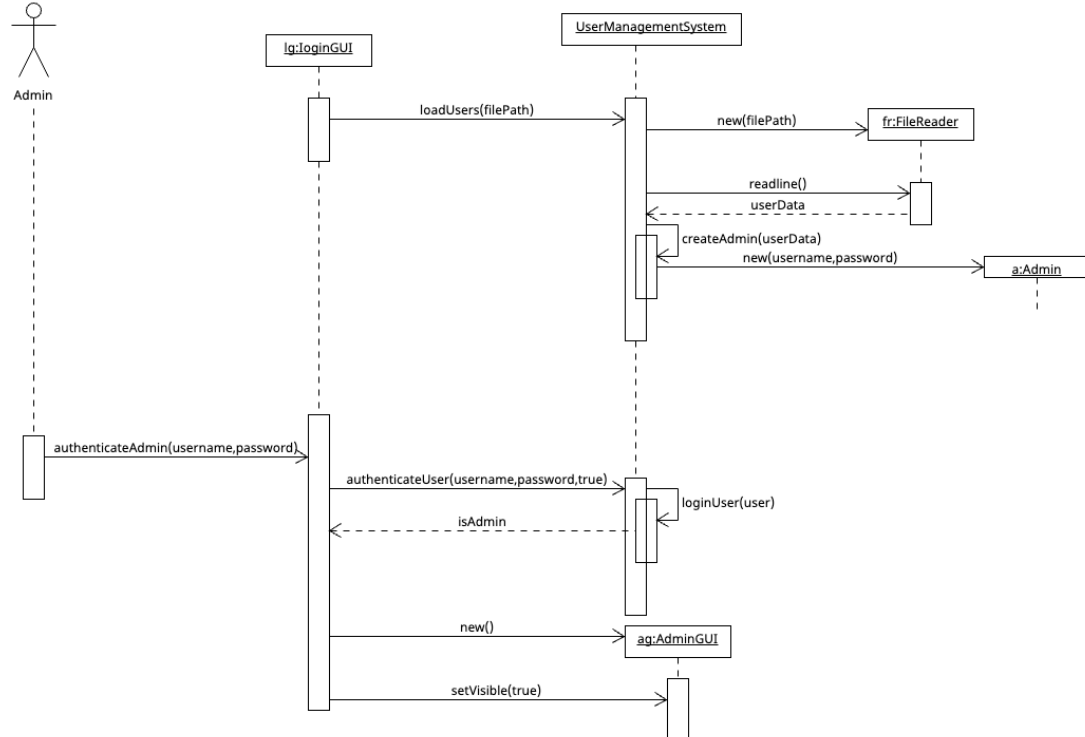
UC Reference Name/Number: UC14: Search by Professor Name	
Overview	Allows a student to search for courses by professor name.
Related use cases:	Search Course
Actors:	Student
Pre Conditions	The student is searching for courses.
Post Conditions	The search results for professor name are displayed.

2. Sequence Diagrams

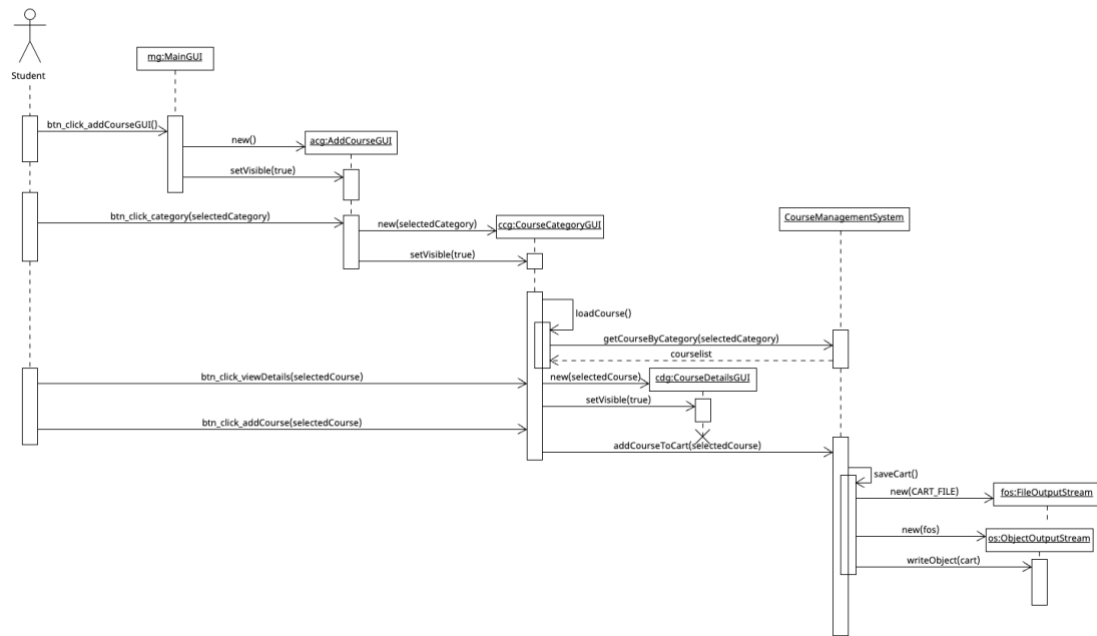
Login Student



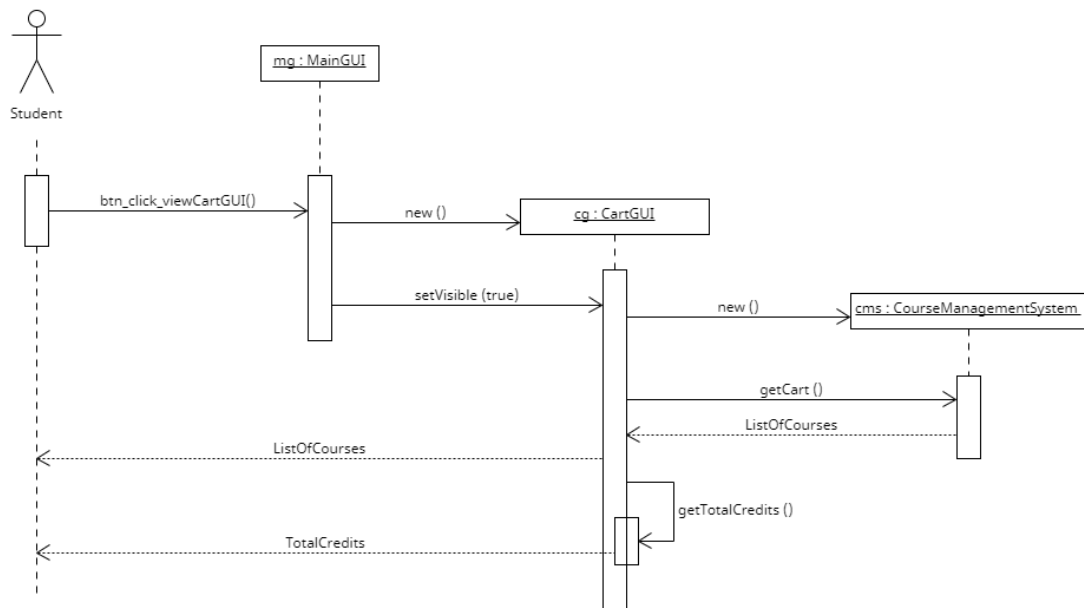
Login Admin



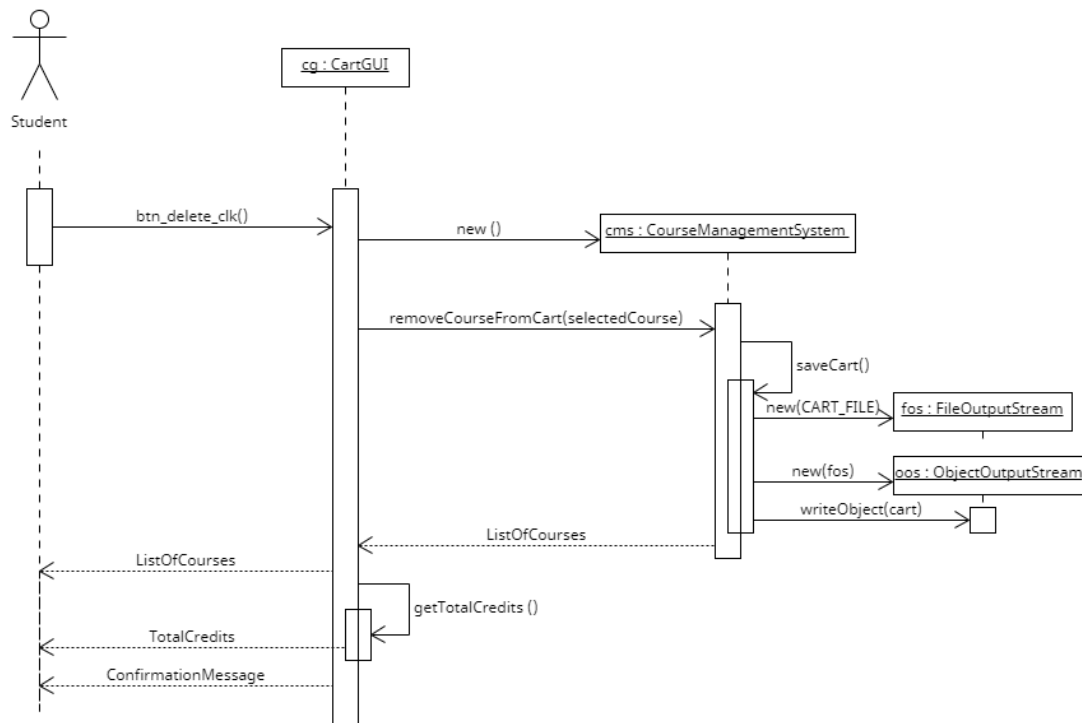
Add Course



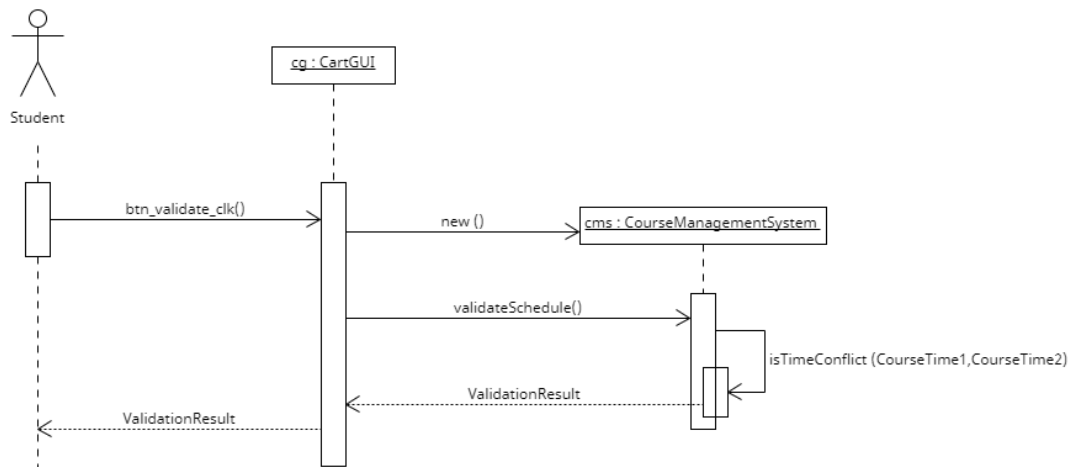
View Cart



Delete Course

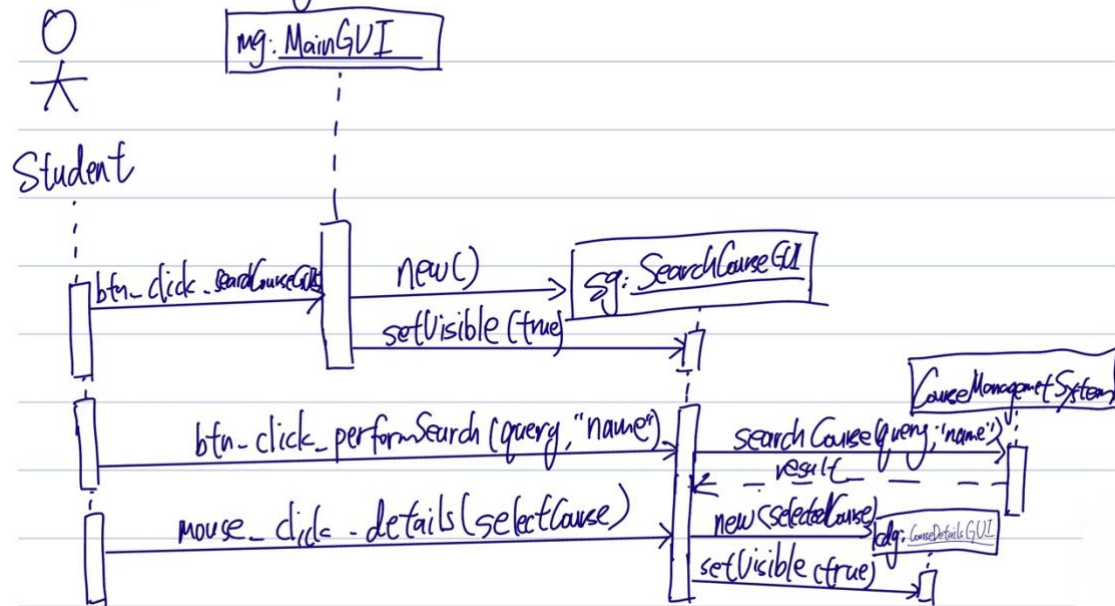


Validate Course



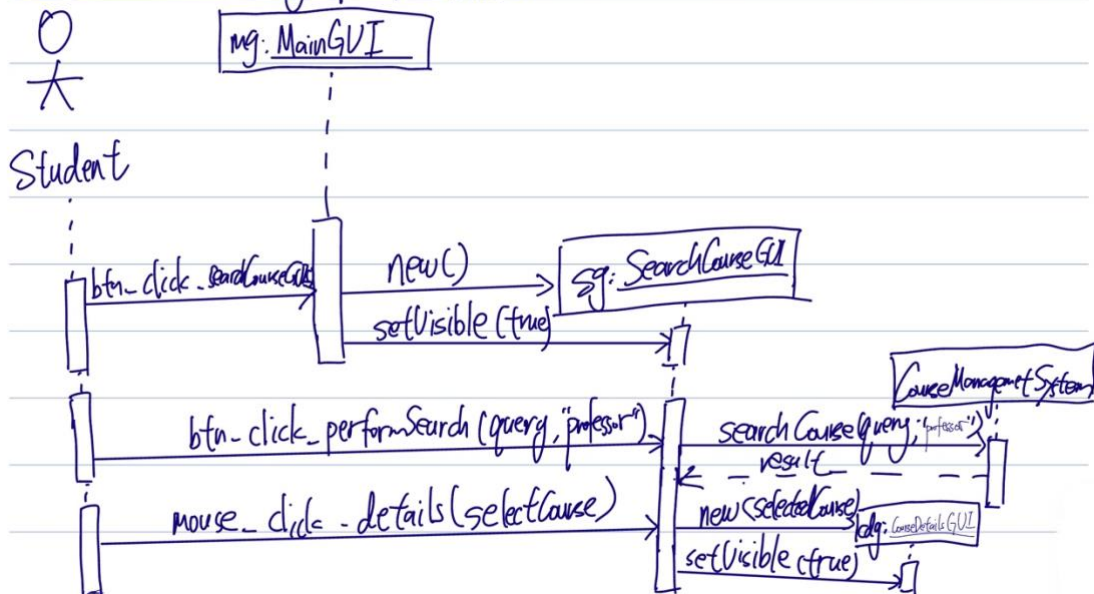
Search Course By Name

Search Course By Name:

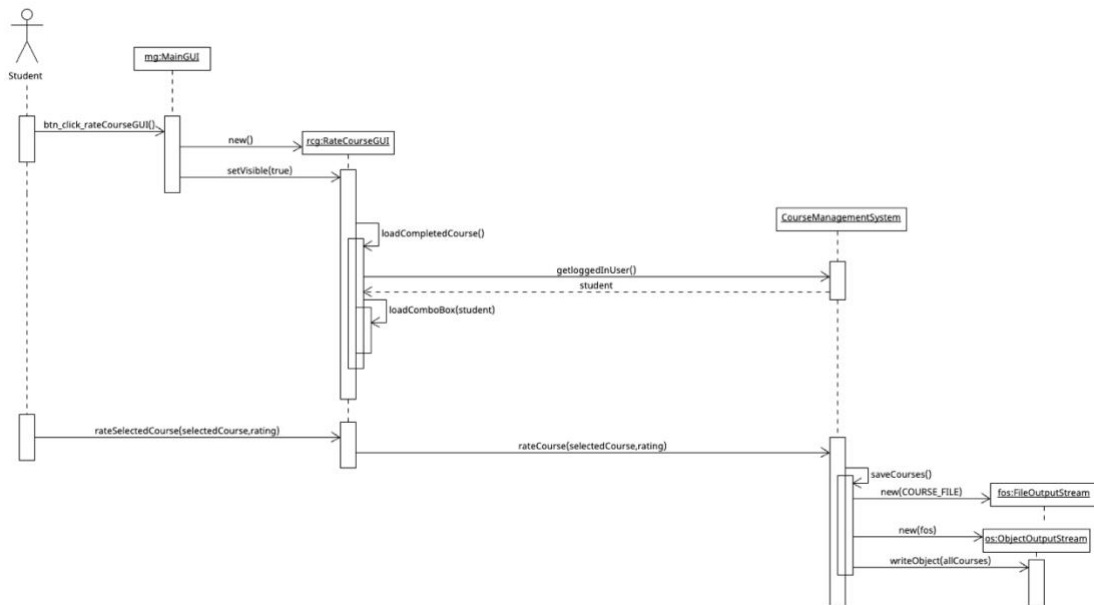


Search Course By Professor

Search Course By Prof Name:

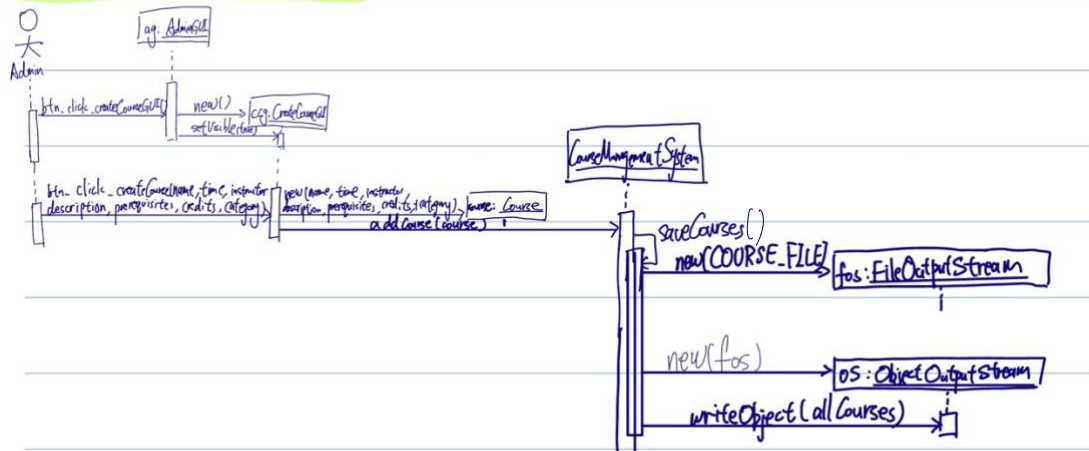


Rate Course:

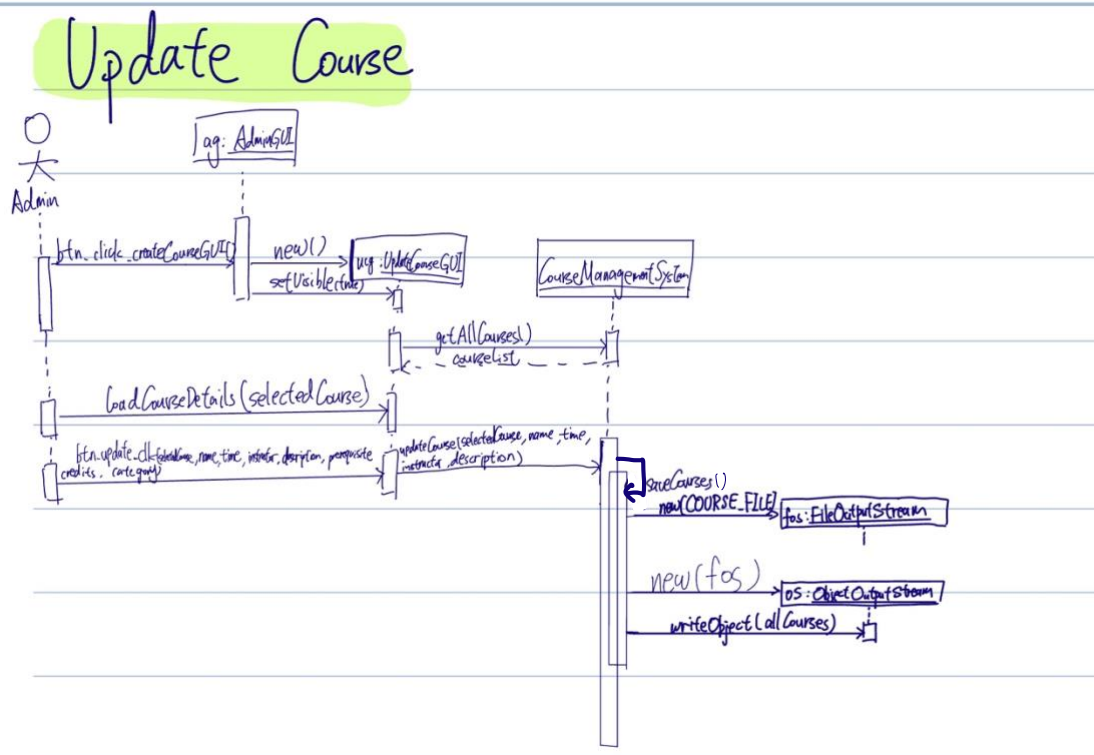


Create Course

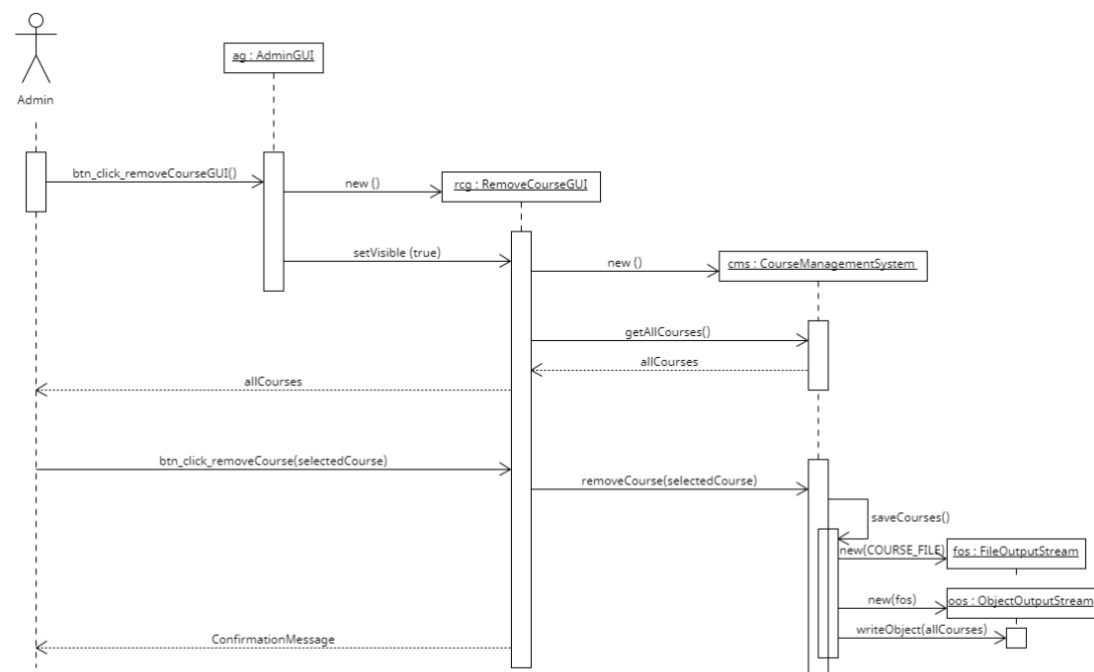
Create Course:



Update Course



Remove Course



3. Class Diagram (On the next page)

