

Online Examination System UML Diagrams



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UseCase Diagram

Use case shapes

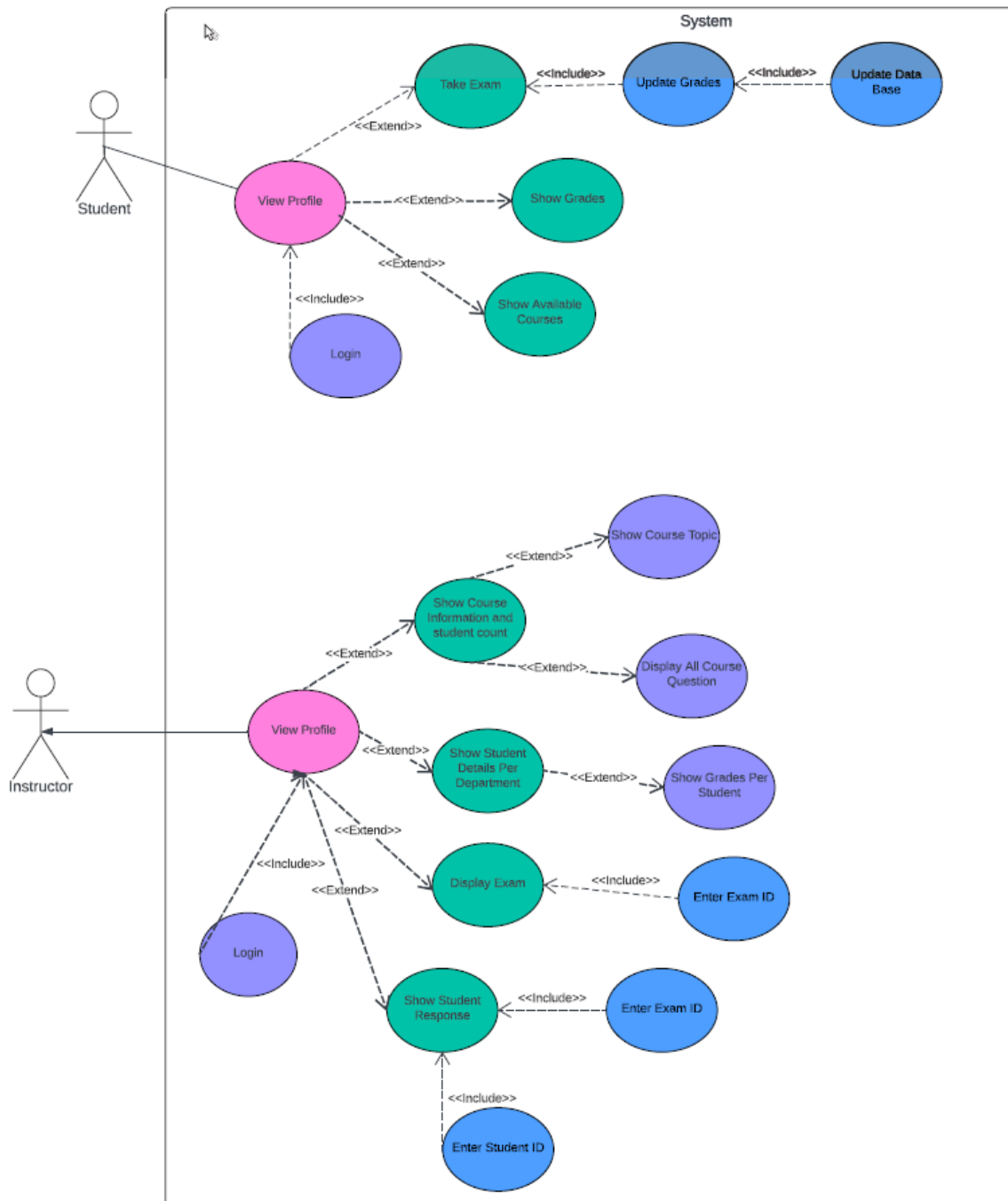
Actor

Use Case

Use Case

Use Case

Use Case



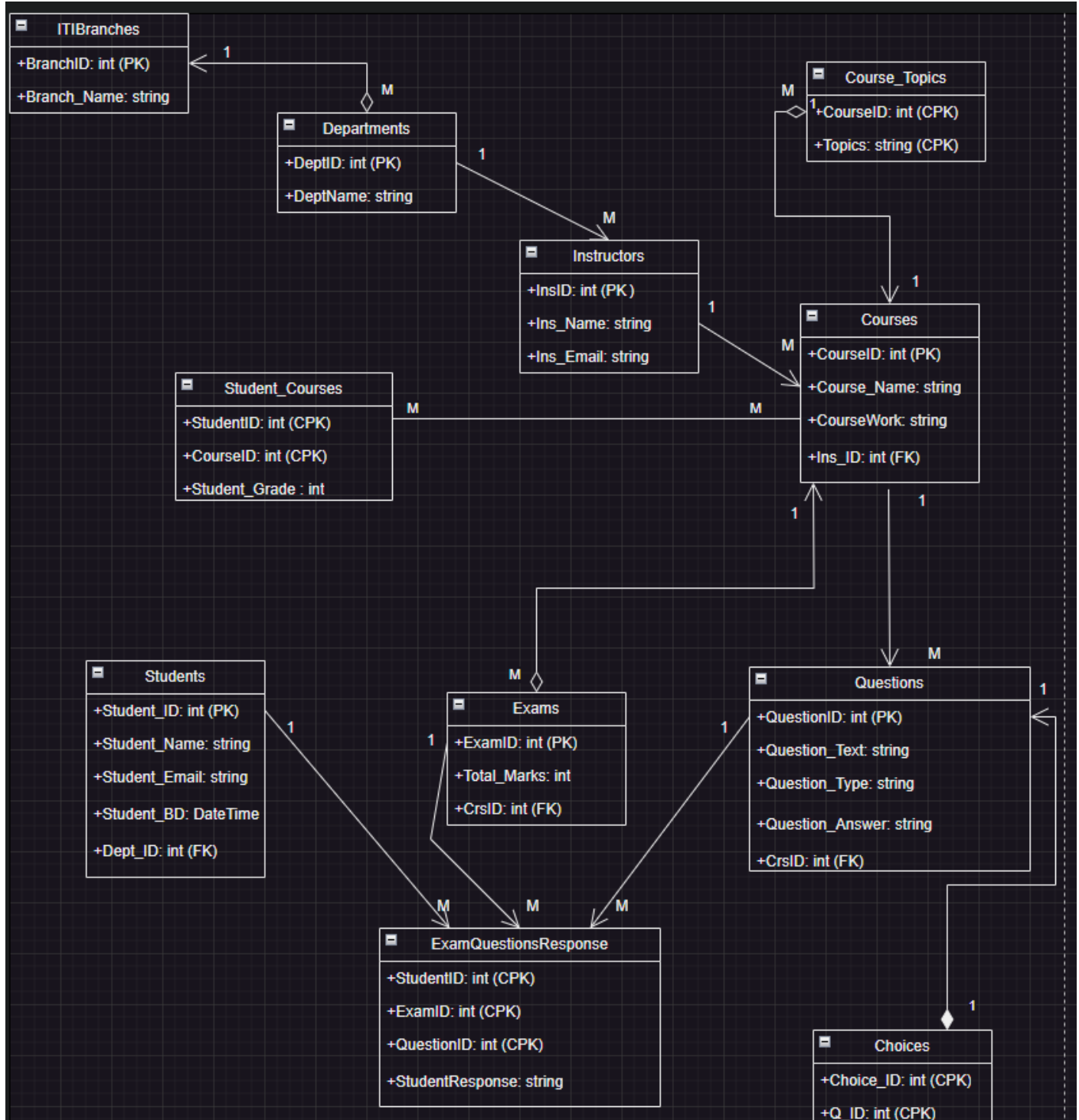
UseCase Diagram – Tables

Name	Take Exam
Description	Student takes course exam dependent on his department
Actors	Student, System
Assumption	Student is enrolled in department and registered in the system [database]
Outcome	Student takes his courses exams and receives his grades
Actor	System
1-student logs into the system 3-student's profile appears with his department's courses	2-system checks the email and password if it's saved in the data base
<p>Alternative 1 after step 2</p> <p>If the email or password is incorrect, the system prompts the student to re-enter.</p>	
4-student selects the course's exam he wants to take 6-student solves the exam's questions 7-student submits his response	5-system generates an exam with random questions for each student 8-system takes student responses and saves them in the database 9- system compares his answers with the correct answers saved in database 10-system shows student's grade and save it in the database

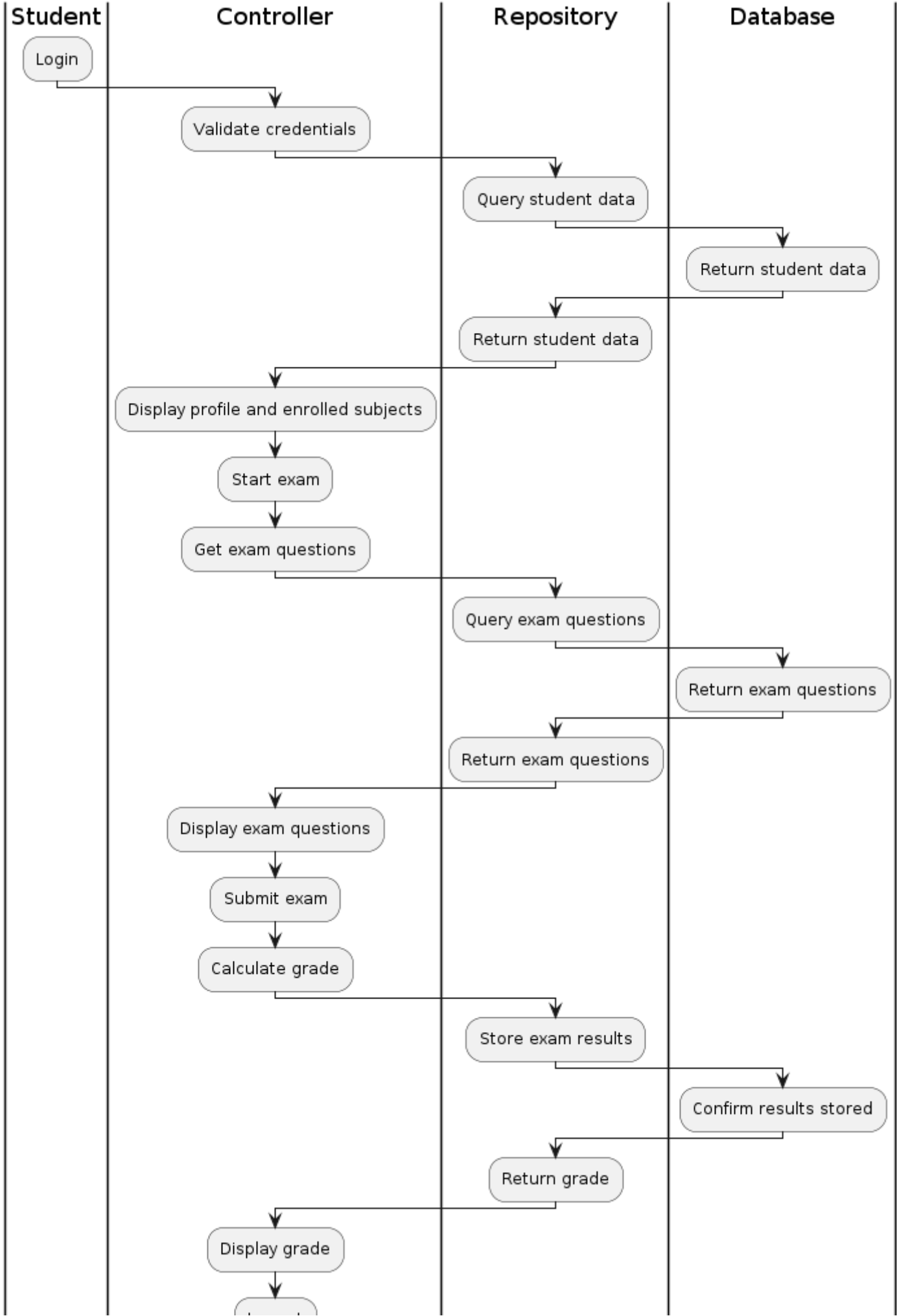
Name	Show Student Details Per Department
Description	Instructor checks student details based on courses he teaches
Actors	Instructor, System
Assumption	Instructor is registered in the database with courses he teaches
Outcome	Instructor checks student details and his grades on the courses he gives
Actor	System
1-Instructor logs into the system 3-Instructor's profile appears with courses he teaches	2-system checks the email and password if it's saved in the data base
<p>Alternative 1 after step 2</p> <p>If the email or password is incorrect, the system prompts the instructor to re-enter.</p>	
4- Instructor selects to show student details for each department 6-Instructor selects to view student grades	<p>5-system shows all student details related to all courses in each department</p> <p>7- system shows all grades for each student in each course</p>

Name	Show Student Response
Description	Instructor checks student's exam questions with responses
Actors	Instructor, System
Assumption	Instructor is registered in the database with courses he teaches
Outcome	Instructor checks student's answers
Actor	System
1-Instructor logs into the system 3-Instructor's profile appears with courses he teaches	2-system check the email and password if it's saved in the data base
<p style="text-align: center;">Alternative 1 after step 2</p> <p style="text-align: center;">If the email or password is incorrect, the system prompts the instructor to re-enter.</p>	
4- Instructor enters exam id and student id	5-system shows exam's questions with student's answer
<p style="text-align: center;">Alternative 2 after step 4</p> <p style="text-align: center;">If the exam id or student id is incorrect, the system prompts the instructor to re-enter.</p>	

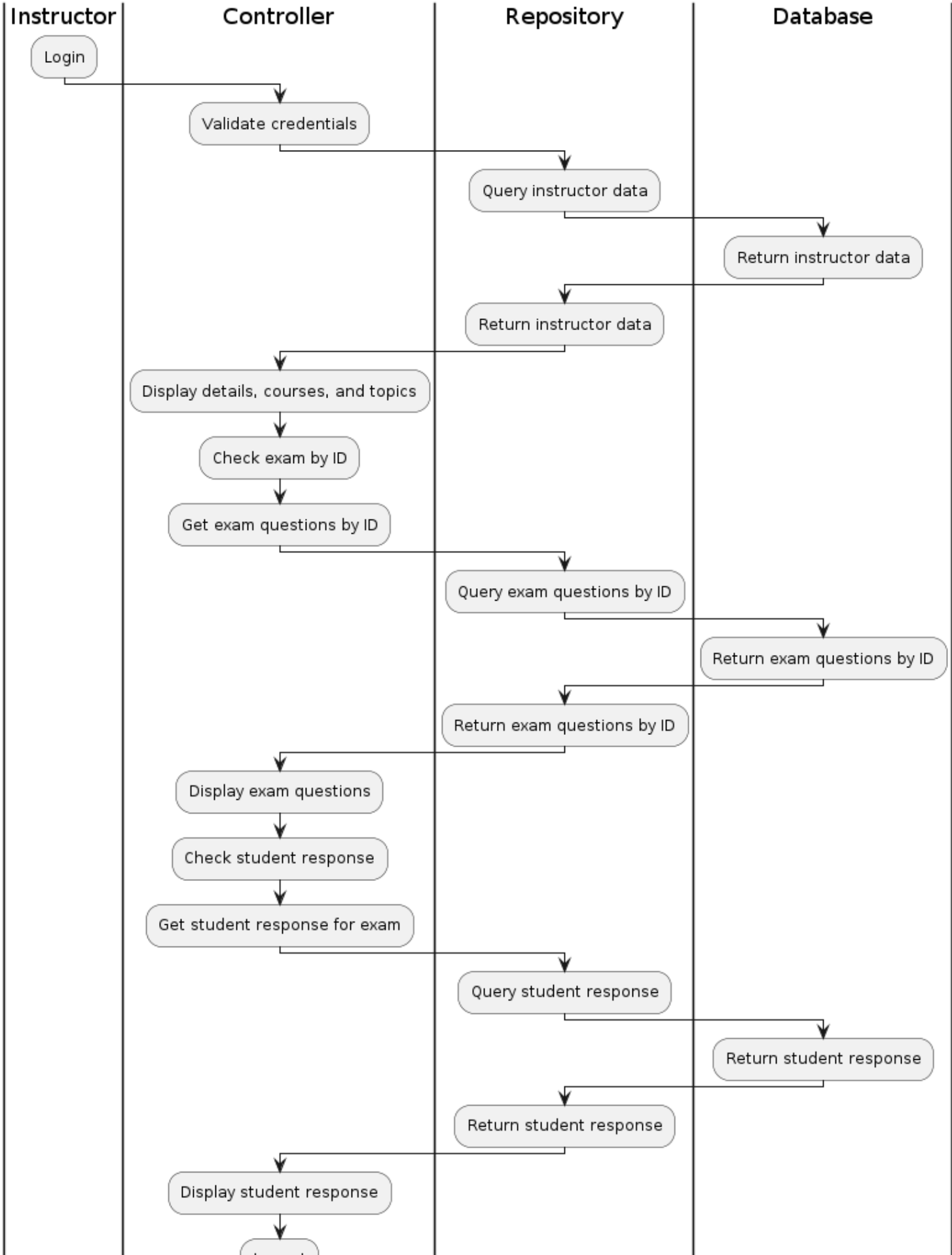
Class Diagram



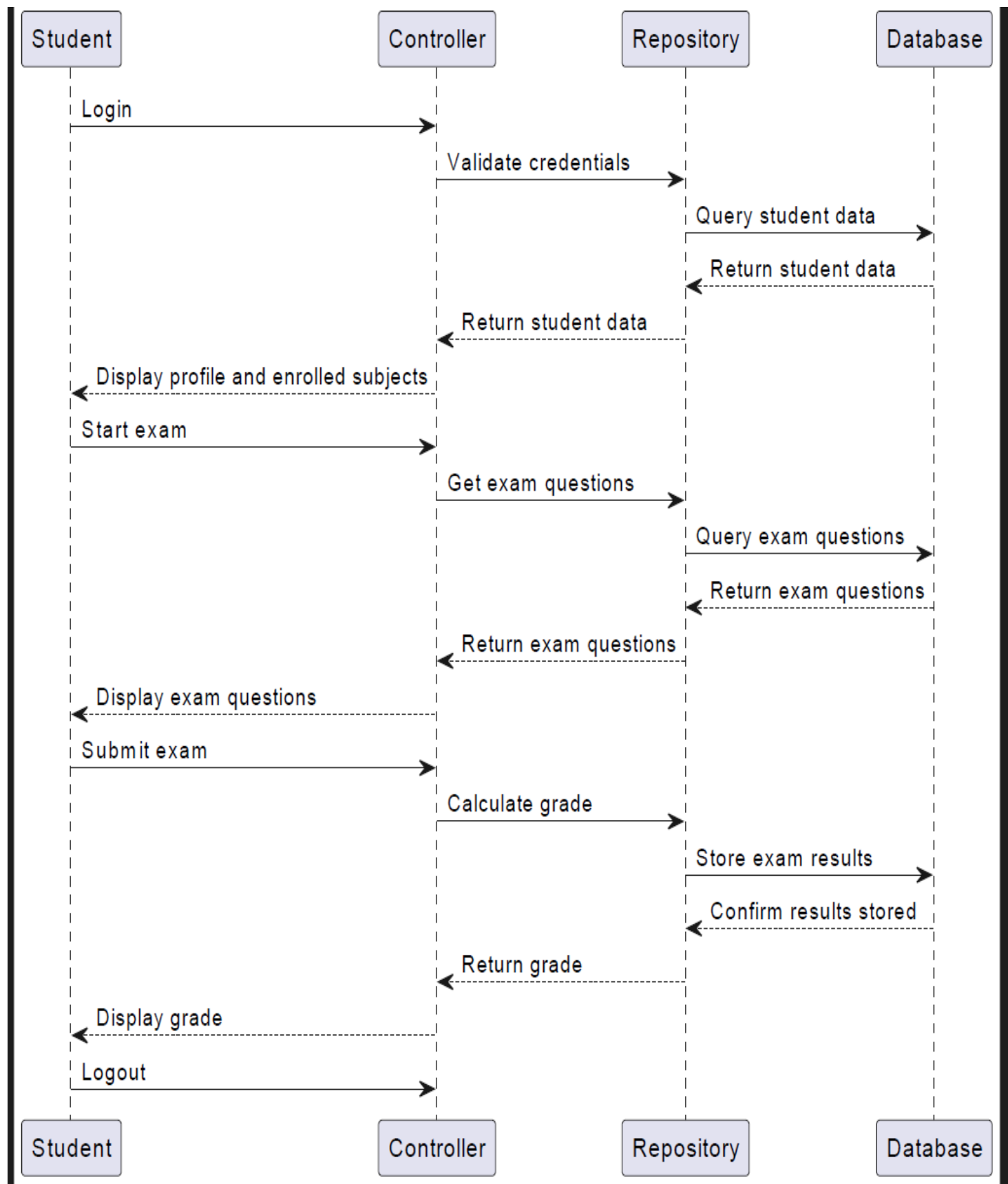
Student-Activity Diagram



Instructor-Activity Diagram



Student – Sequence Diagram



Instructor – Sequence Diagram

