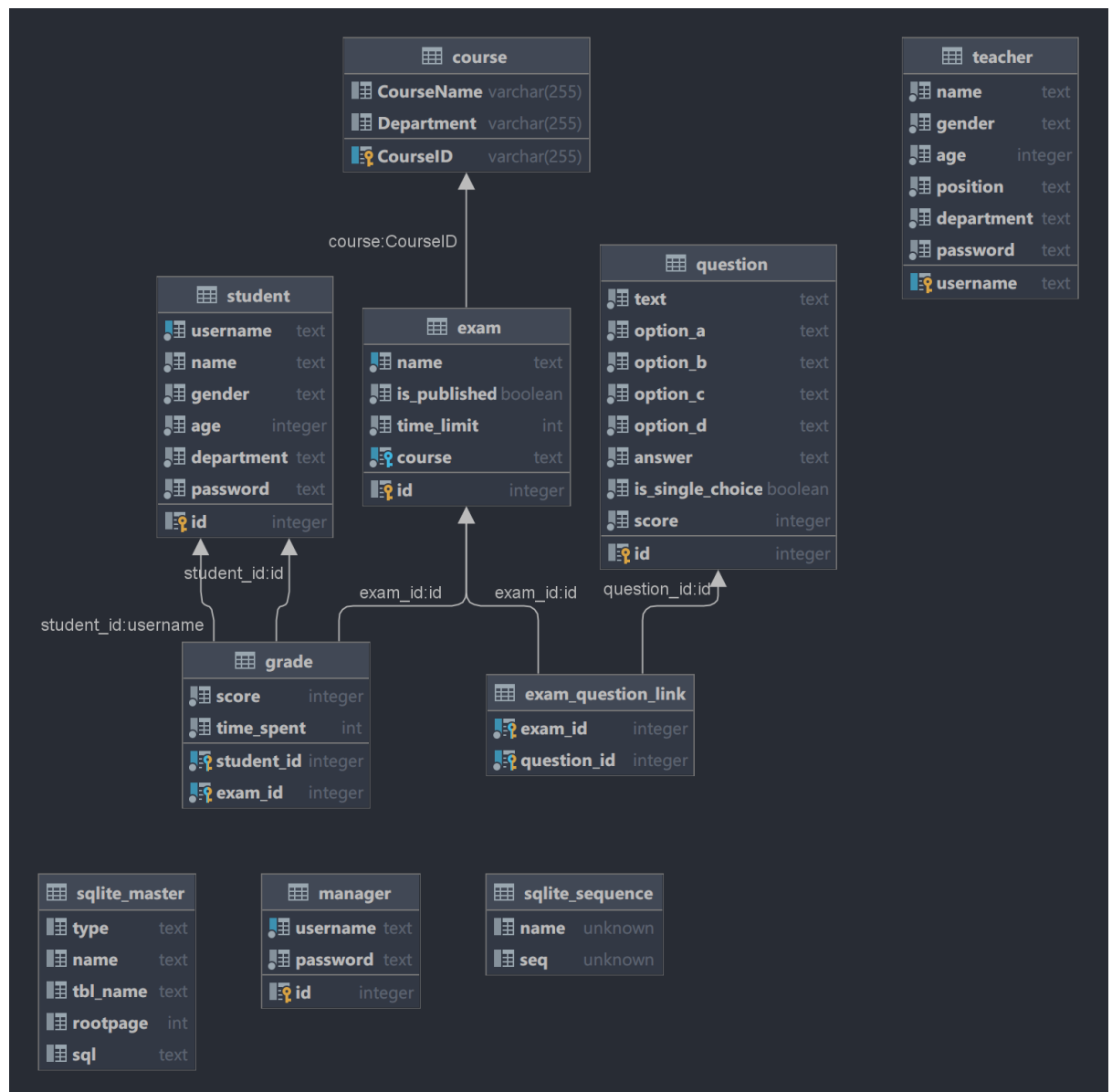


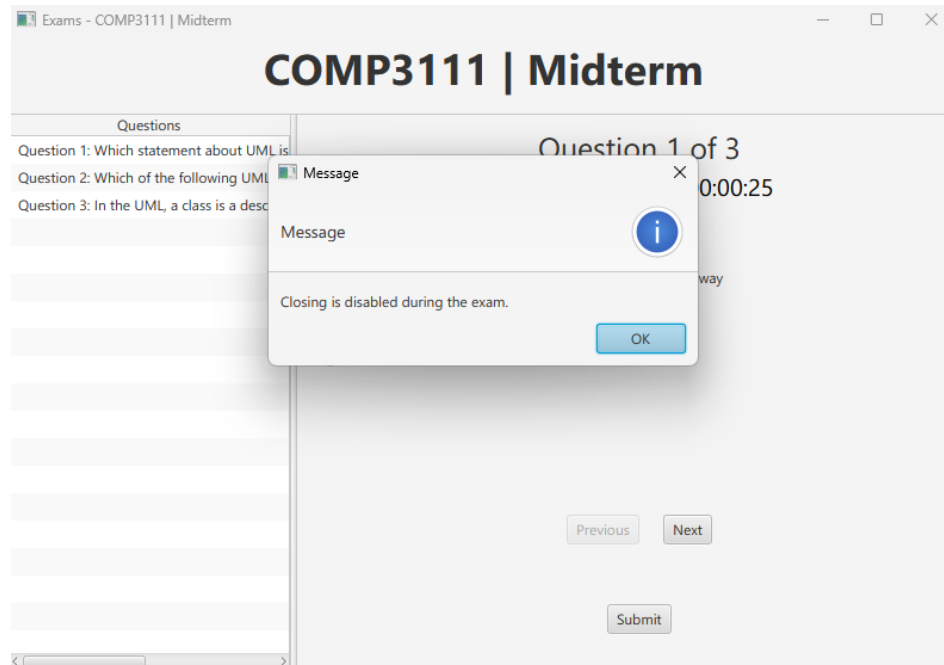
Our project contains several features that we would like to point out.

1. We utilized SQLite as the database in our backend, one of the main reasons of choosing SQLite is that it is portable and more lightweight without the hassle to deal with cloud hosting. With a relational database, we can now more easily handle specific legal checks and delete cascading. We implemented multiple foreign constraints and set up delete on cascade to handle two main situations.
 - a. When the manager deletes a student, his/her grade should also be deleted.
 - b. When a manager deletes a question, the question should also be removed from all exams.

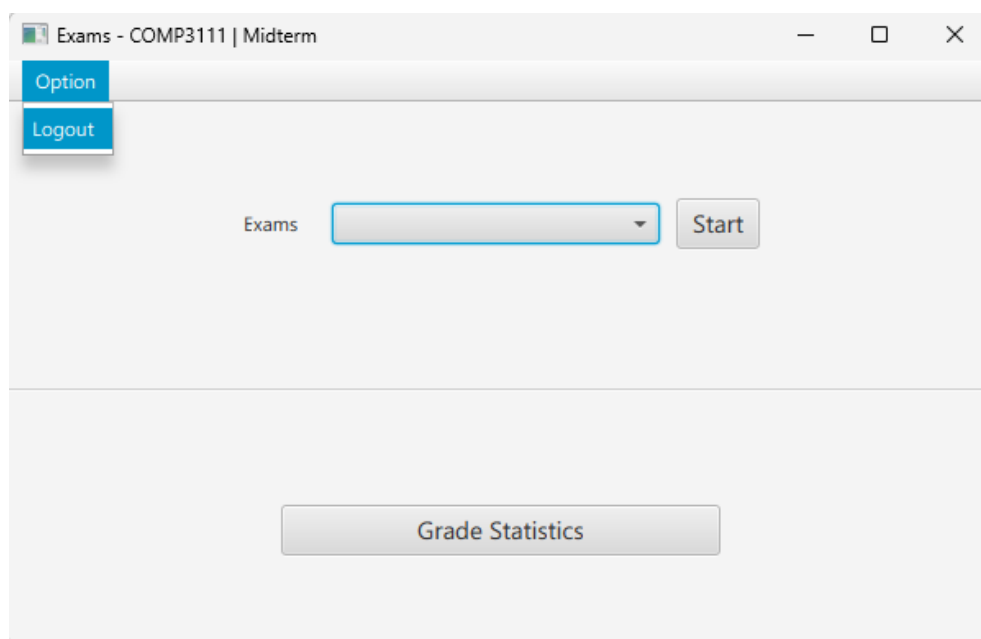
Besides that, we can impose constraints on datatypes or length, especially useful when it comes to registering a new user.



2. In the student exam page taking, WANG Shao Fu handled all kinds of exception cases, such as forbidding closing the window when taking the exam, and also closing the main window after starting the exam, so that we can avoid students starting multiple exam at the same time.



3. WANG Shao Fu's student part implements scene transfer and blocking such that no errors can occur, for example, disable selecting exam if the grade statistics are opened.
4. Our team in all cases handled the logout button instead of using the original exit, so that the user will be transferred to the homepage.



5. We implemented substring filtering on all filters, for example, we could type a word and retrieve all questions with the key word, shown below.

— □ ×

Question text: Type: Score:

Question	Option A	Option B	Option C	Option D	Answer	Type
Which statement about UML is true?	The UML make...	The UML can b...	The UML can b...	The UML is a so...	A	Single
Which of the following UML conce...	class	operation	association	method	D	Single
In the UML, a class is a description...	attributes	operations	relationships	semantics	ABCD	Multiple