Supplementary Note

Assumption

I assume the following in my Task 1 implementation:

- 1) As there is no case handling for students to enroll in courses, Students are enrolled in all courses in our system. Students are assumed to be able to take any exams created and published from all courses.
- 2) Students are assumed only to be able to conduct 1 exam at 1 time, that student cannot participate in 2 exams at the same time. Once students start their exam, only after they finish and submit their exam they can take another one.

Extra Implemented Features

1) Students set Password

Students have the following limitations when set their Password

```
Password should contain:

1. At least 1 special character from "!@$%^&*_+<>/-"

2. At least 1 number from 0 to 9

3. At least 1 small letter from a to z

4. At least 1 capital letter from A to Z

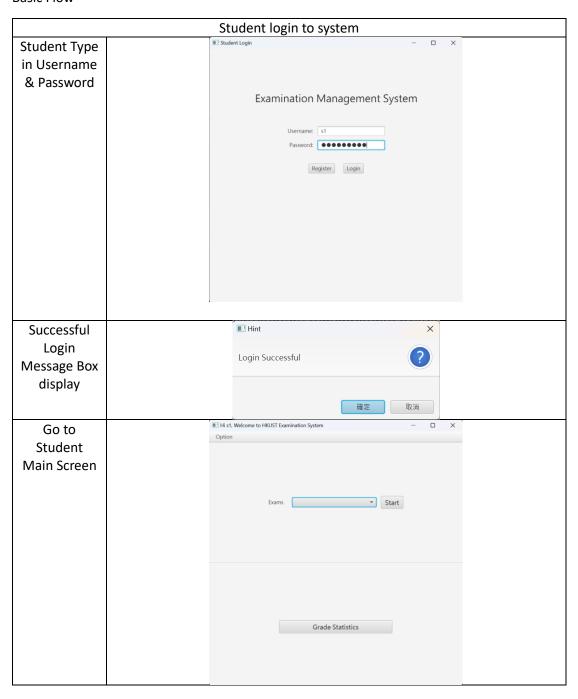
5. No blank space
```

- 2) Clickable Question Cell in Question Side Column in Student Start Exam Screen Clicking Question cell in Question Column on the left side will make the Student Start Exam Screen change to display content for that question.
- 3) Students Conduct Exam Time's up When Students have no remaining time to complete their exam (i.e. Time's up), Student's attempt will be automatically submitted.
- 4) Students View Grade Students can view the percentage of correctness for each question type for every exam conducted by clicking their submission row in the grade table displaying the list of exams conducted.

Screenshot for sample input and output

TASK 1.1: Handling the student's login

Basic Flow



Alternative Flow

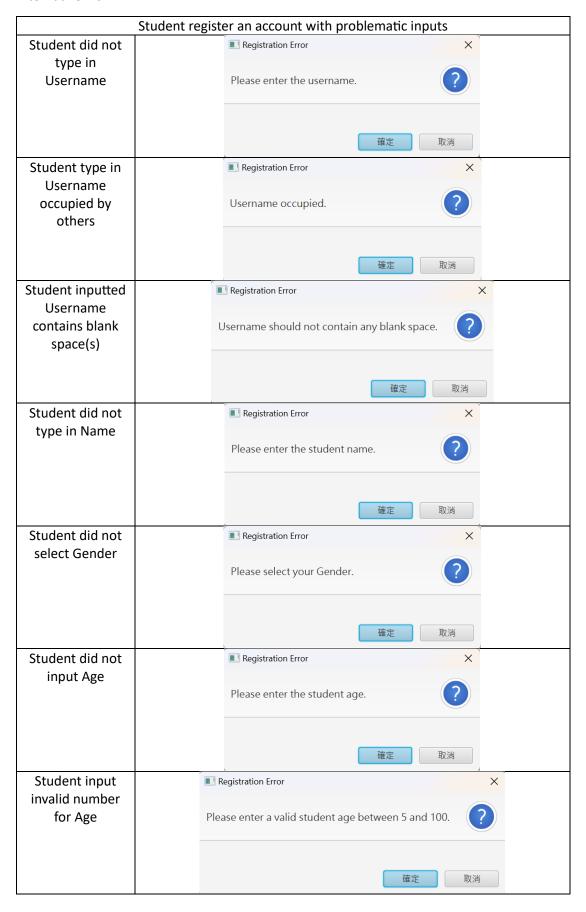


TASK 1.1.1: Handling the student's registration

Basic Flow

Student register an account								
Student type in	■ Student Register - X							
Username,								
Name, Age,	Student Registration							
Department,	3							
Password &	Username s2							
PasswordConfirm	Name Student2							
	Gender Male ▼							
and select	Age: 21 Department: CSE							
Gender	Password:							
	Password Should contain:							
	1. At least 1 special character from "!@\$%^&*_+<>/-" 2. At least 1 number from 0 to 9							
	3. At least 1 small letter from a to z 4. At least 1 capital letter from A to Z 5. No blank space							
	Close Register							
Successful	■ Hint ×							
Register Message								
Box display	Student Register successful.							
	確定 取消							
Student can login	■ Student Login – □ X							
with registered								
account								
	Examination Management System							
	Username: s2							
	Password:							
	Register Login							
	■ Hint ×							
	Login Successful (?)							
	Eogin succession							
	確定 取消							
	The state of the s							

Alternative Flow



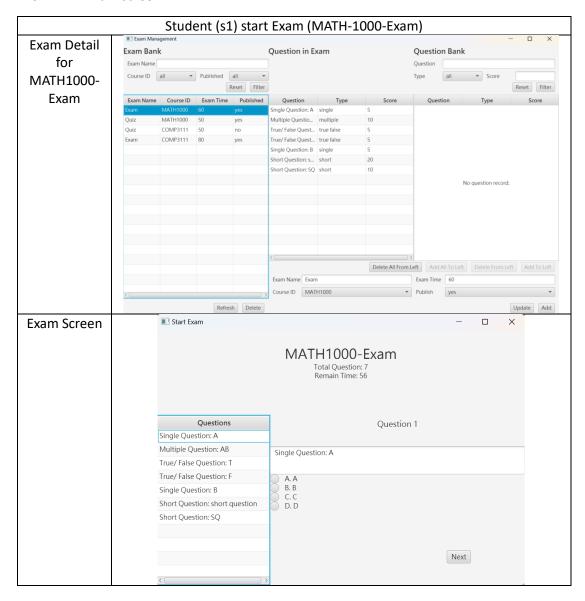




TASK 1.2: Quiz selection screen

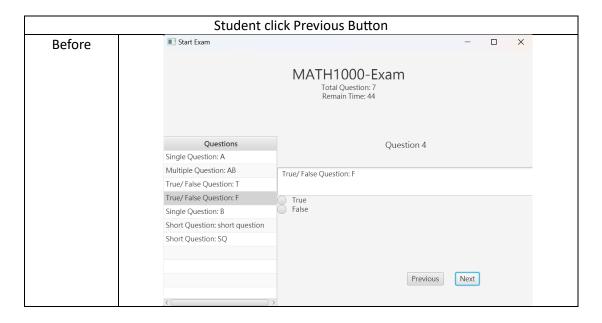
	Stude	nt choose	which exam	to conduc	`†		
Current	Stude	Exam Mana		i to conduc	. L		
Outstanding	ļ ,	Exam Banl					
Exam		Exam Name					
			-11 -	D. In Contract of	-11 -		
		Course ID	all ▼	Published	all Tilter		
					Reset Filter		
		Exam Name	Course ID	Exam Time	Published		
		Exam	MATH1000	60	yes		
		Quiz	MATH1000 COMP3111	50	yes		
		Quiz Exam	COMP3111	50 80	no		
		EXAIII	COMPSTIT	00	yes		
Exam	Exam If is 1, Welcome to HKUST Examination System —						
Choices in		Option					
ChoiceBox in							
Main Screen							
No.			Exams MATH1000-Ex	▼ Star	t		
Note: s1 haven't		MATH1000-Quiz COMP3111-Exam					
conducted							
any exam yet							
		Grade Statistics					
		<u>.</u>					
Student Start		III Hi s1, Welcome to HK	UST Examination System		- 0 X		
to conduct							
MATH1000-							
Exam							
			Exams MATH1000-Exam	n ▼ Start	t		
			Grade S	Statistics			

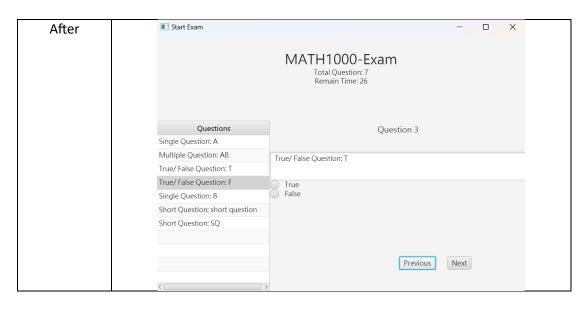
TASK 1.2.1: Exam screen

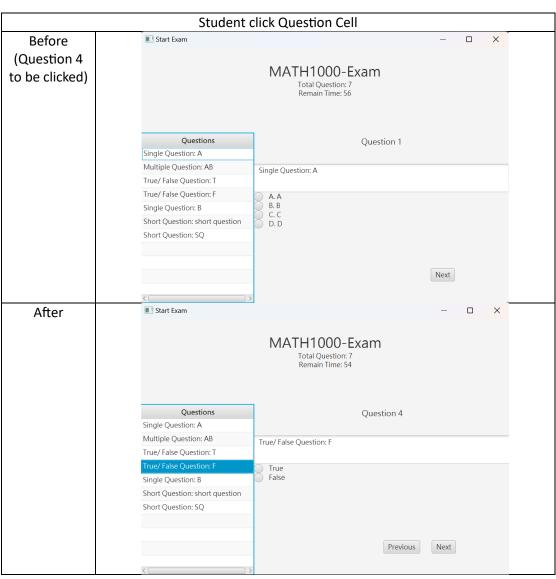


TASK 1.2.1.1: Previous, Next Button and Question Cell OnClick action (Switching Question)

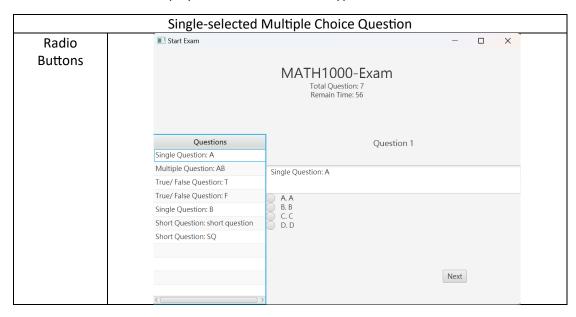


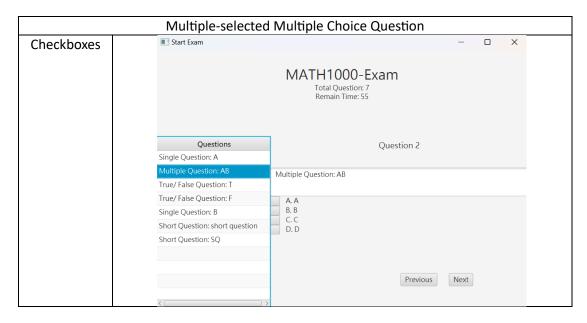


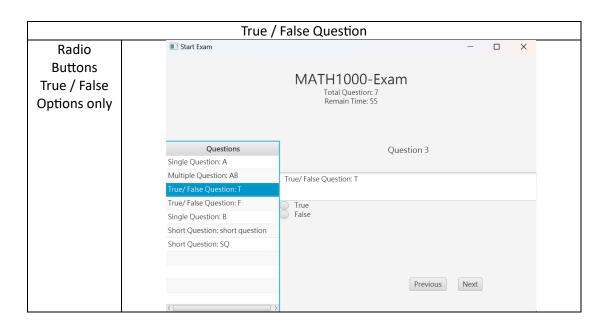


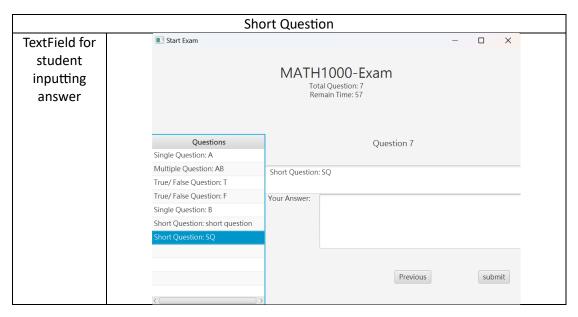


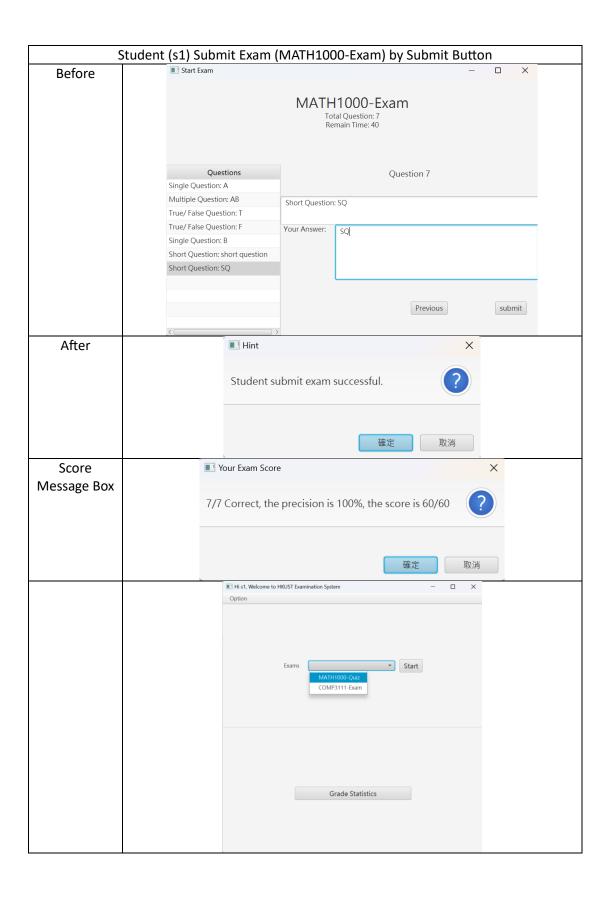
TASK 1.2.1.2: Question Display for different Question Types



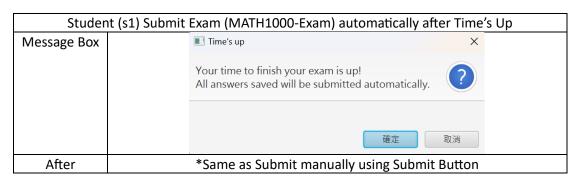


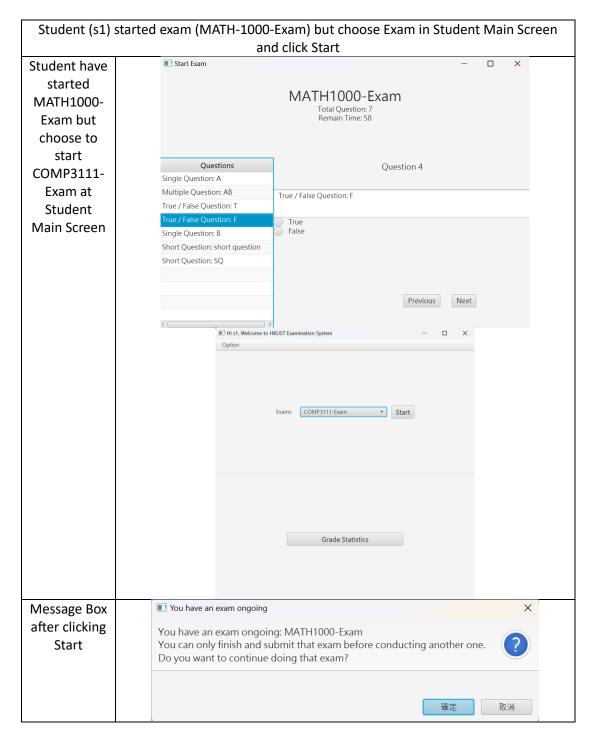


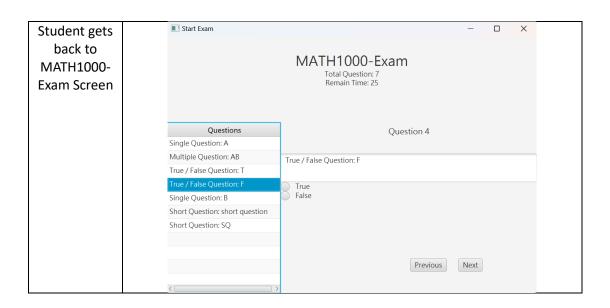




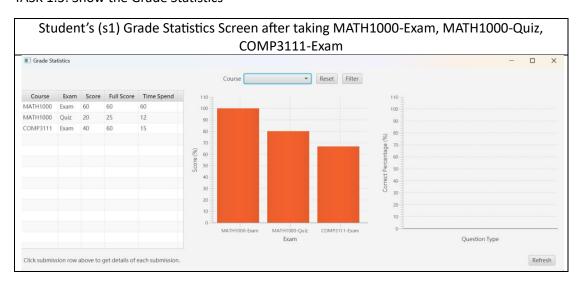
TASK 1.2.1.4: Alternative Flow



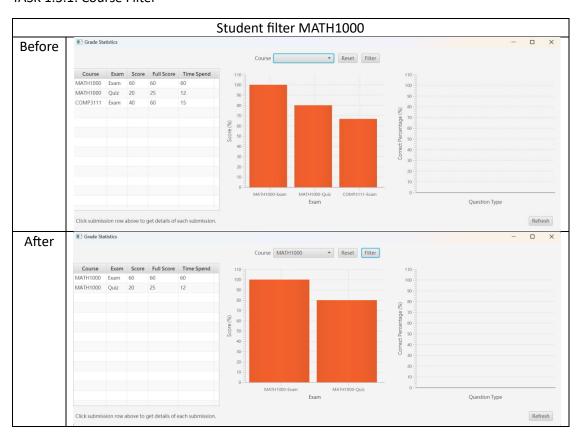




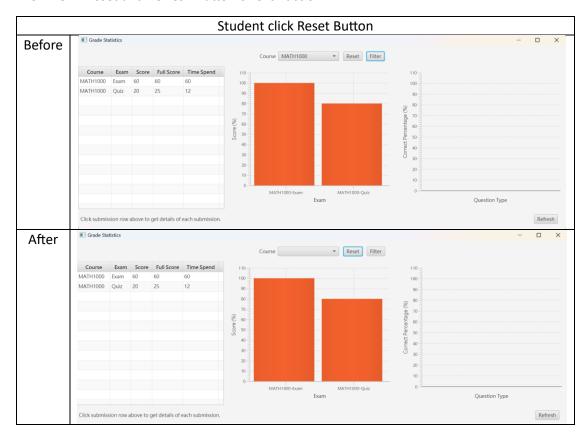
TASK 1.3: Show the Grade Statistics

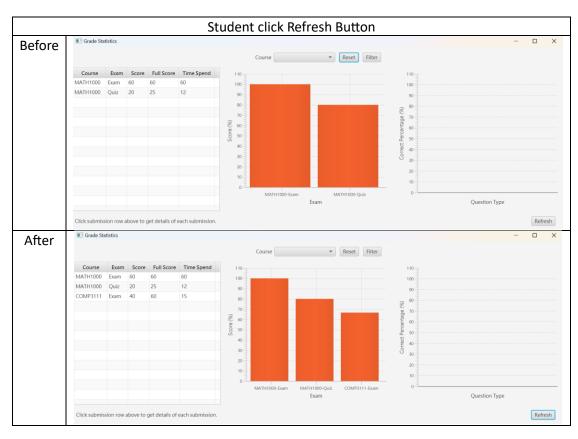


TASK 1.3.1: Course Filter



TASK 1.3.2: Reset and Refresh Button on Click action





TASK 1.3.3: Submission row onClick action

