

Student

1. Student Registration

A screenshot of a web browser window titled "Student Register". The form contains the following fields: Username (empty), Name (placeholder "Please enter your name"), Gender (dropdown menu with "Gender" selected), Age (placeholder "Please enter your age"), Department (placeholder "Please enter your department"), Password (placeholder "Please enter your password" with a "Show Password" checkbox), and PasswordConfirm (placeholder "Please enter your password again" with a "Show Password" checkbox). At the bottom are "Close" and "Register" buttons.

Registration blank page

A screenshot of the "Student Register" form with red error messages below the Username, Name, Gender, Age, and Department fields. The messages are: "Please enter your username", "Invalid character(s)", "Please enter your name", "Invalid character(s)", "Please select gender", "Please enter your age", "Please enter your age", "Please enter your department", and "Please enter your department". The Password and PasswordConfirm fields are still empty. The "Register" button is highlighted in blue.

Entry checks

A screenshot of the "Student Register" form with multiple red error messages. Username: "@_@_))) :-)" with "Invalid character(s)". Name: "fuckkkkkk" with "Invalid character(s)". Gender: "Others" (selected). Age: "100" with "Invalid range". Department: "CSE^_^" with "Invalid character(s)". Password: "password" with "Show Password" checked and "Password must be more than 8 characters and at least one special character(s) (!\"@#\$%^&*~)". PasswordConfirm: "secure" with "Show Password" checked and "Password not match". The "Register" button is highlighted in blue.

More Entry Check

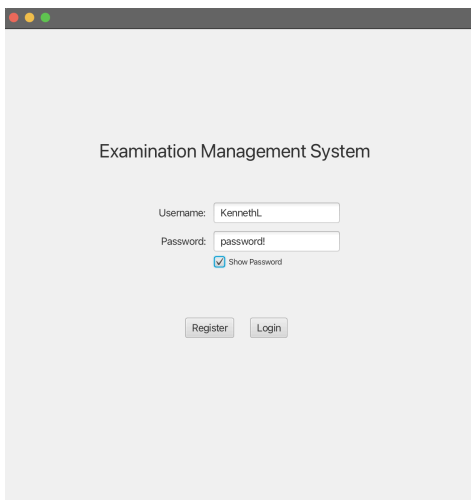
A screenshot of the "Student Register" form with valid information entered. Username: "KennethL", Name: "Kenneth Leung", Gender: "Male" (selected), Age: "40", Department: "CSE", Password: "password!" (masked with dots), PasswordConfirm: "password!". The "Show Password" checkbox for PasswordConfirm is checked. The "Register" button is highlighted in blue.

Valid information

Sample Input:

Username: KennethL
Name: Kenneth Leung
Gender: Male
Age: 40
Department: CSE
Password: password!
PasswordConfirm: password!

2. Student Login



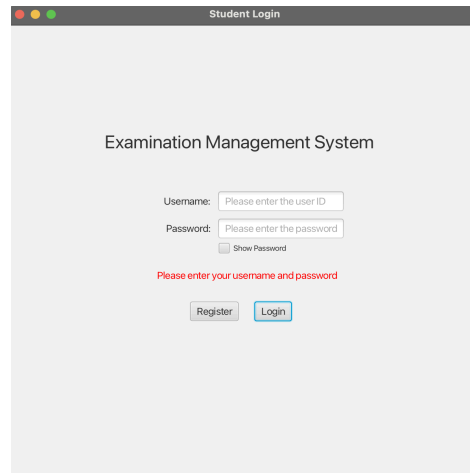
Examination Management System

Username: KennethL

Password: password!

☒ Show Password

Student Login



Student Login

Examination Management System

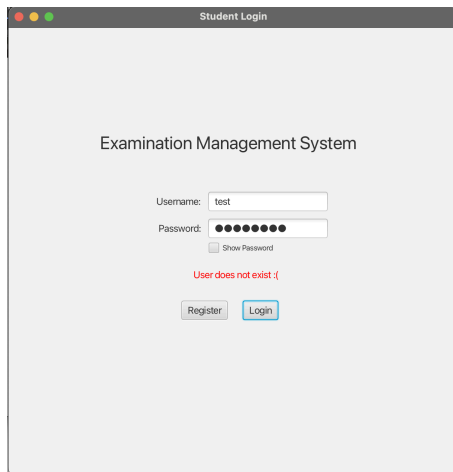
Username: Please enter the user ID

Password: Please enter the password

☐ Show Password

Please enter your username and password

Empty Check



Student Login

Examination Management System

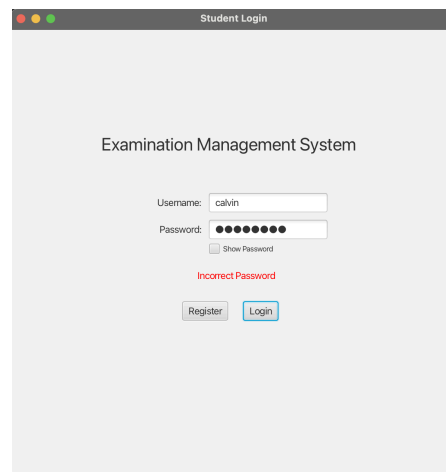
Username: test

Password: ●●●●●●

☐ Show Password

User does not exist :(

User Not Exist



Student Login

Examination Management System

Username: calvin

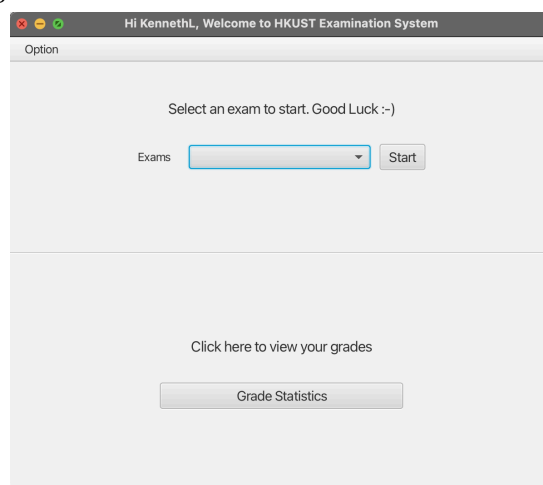
Password: ●●●●●●

☐ Show Password

Incorrect Password

Wrong Password

3. Student main page



Hi KennethL, Welcome to HKUST Examination System

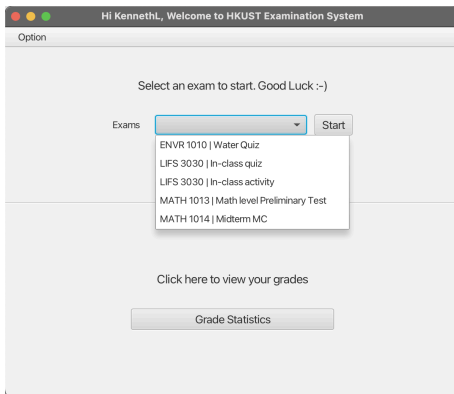
Option

Select an exam to start. Good Luck :-)

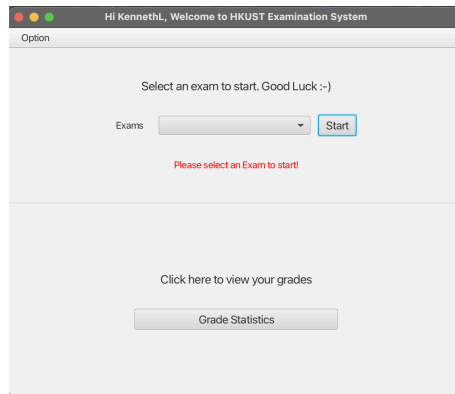
Exams

Click here to view your grades

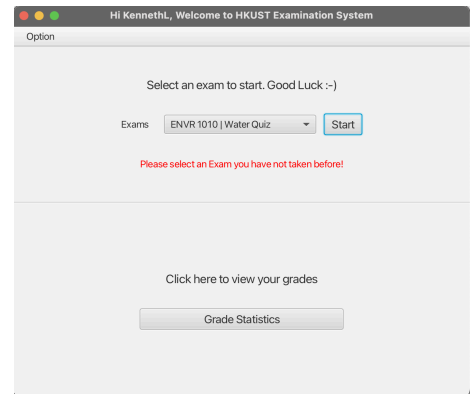
4. Select exam to start



Select exam

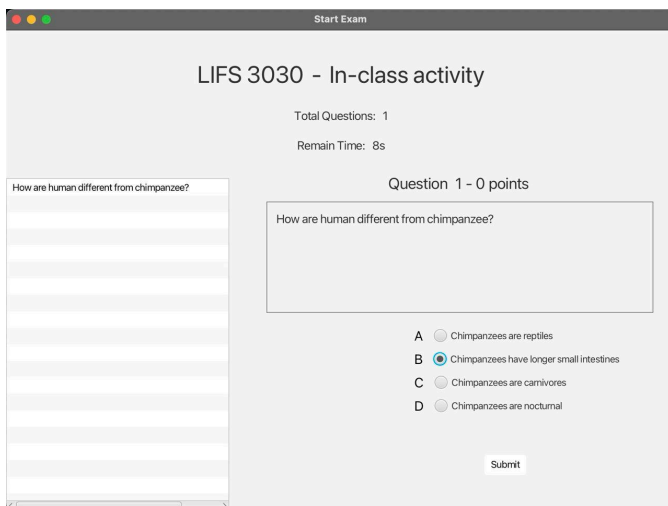


Sanity Check

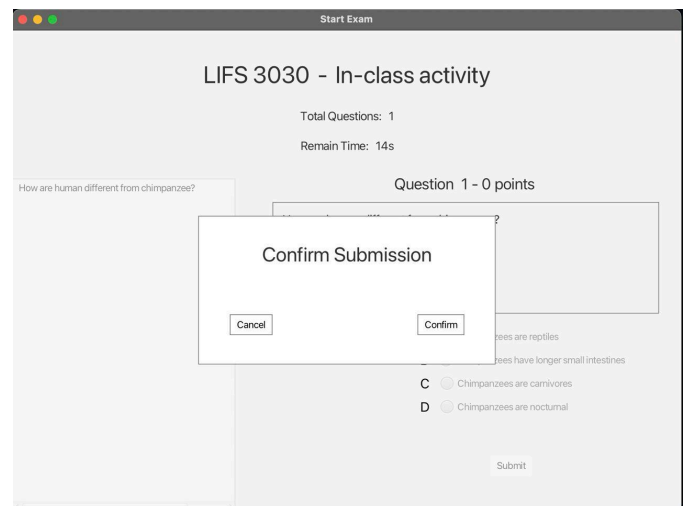


Sanity Check

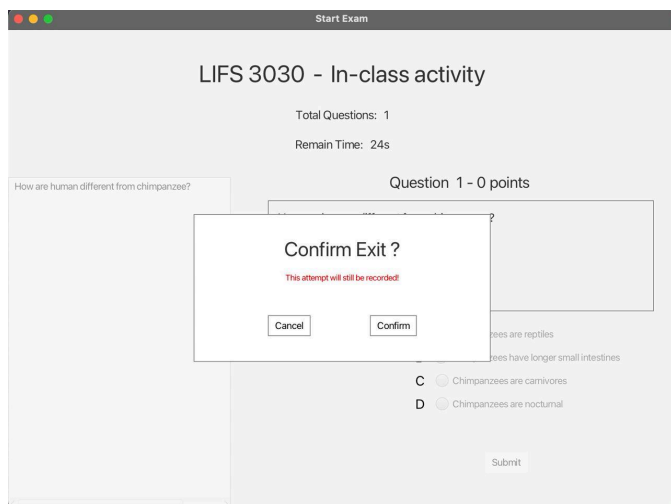
5. Exam taking



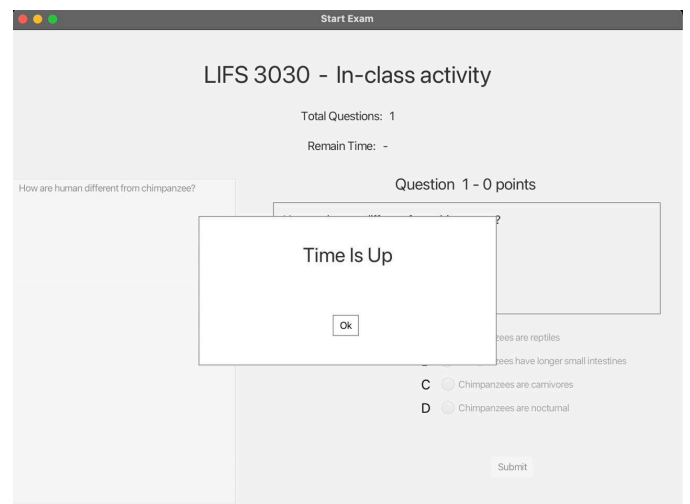
Exam Taking



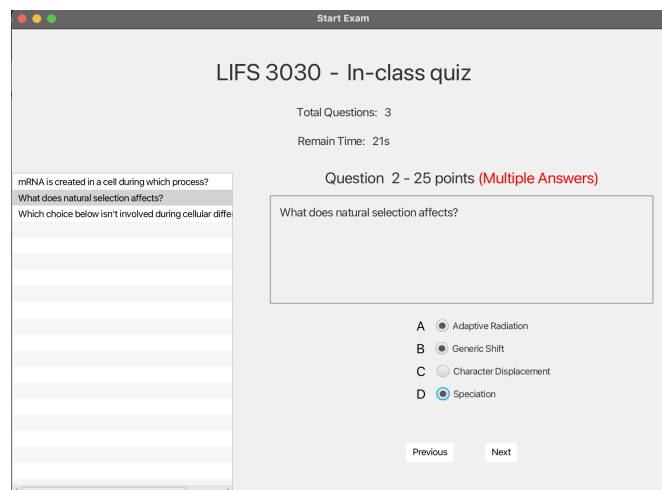
Exam Submission Confirmation



Early Exit Confirmation

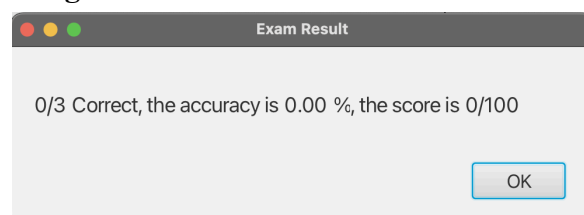


Time Is Up Warning

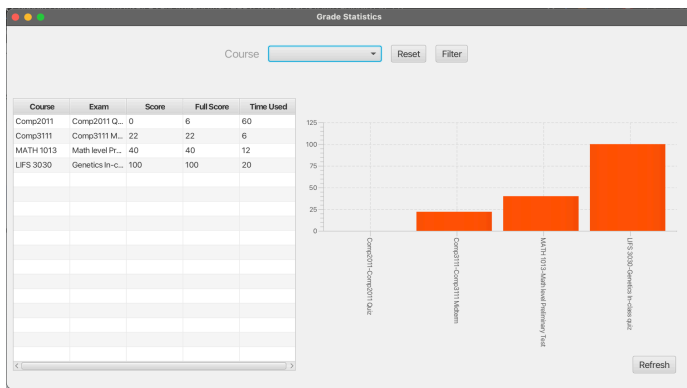


Multiple Answering Warning

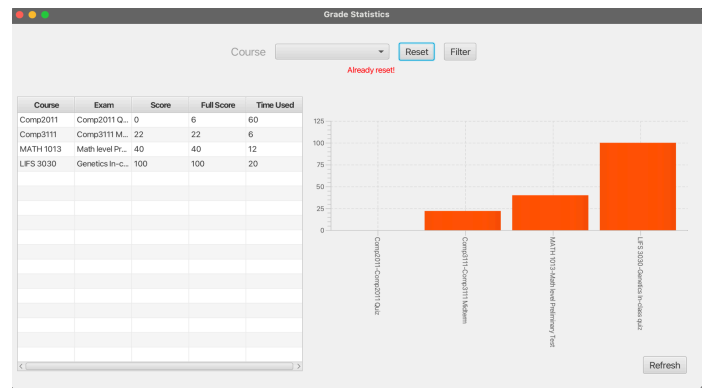
6. Exam Result Viewing



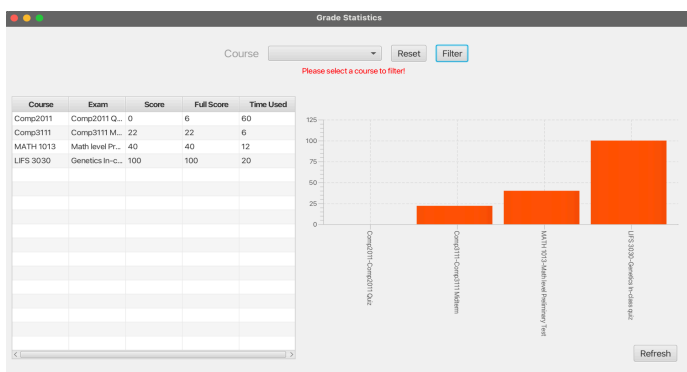
7. Grade Statistics Viewing



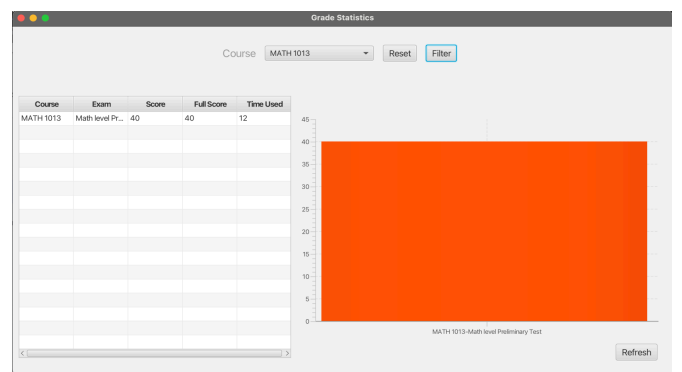
View All Grade and Exam Attempt Information



Sanity Check on Reset



Sanity Check on Filter



Filter by Course

Teacher

1. Register Teacher

teacher Register

Username: teacher3

Name: teacher3

Gender: Female

Age: 30

Position: Professor

Department: ELEC

Password: teacher#3

☒ Show Password

PasswordConfirm: teacher#3

☒ Show Password

Close Register

Valid Information

teacher Register

Username: teacher1

This username is already in use, please use a new one

Name: #

Please Enter a valid name

Gender: Gender

Please choose your Gender

Age: 1

Please Enter a valid age value

Position: Position

Please enter your position

Department: ###

Please Enter a valid department name

Password: 123

☒ Show Password

Password must be more than 8 characters and at least one special character(s) (.*[!@#\$%^&*].*)

PasswordConfirm: #

☒ Show Password

Re-entered password doesn't match!

Close Register

Invalid Information

teacher Register

Username: Please enter your username

Please Enter a username

Name: Please enter your name

Please Enter your name

Gender: Gender

Please choose your Gender

Age: Please enter your age

Please Enter an age

Position: Position

Please enter your position

Department: Please enter your department

Please enter your department

Password: Please enter your password

☐ Show Password

Password cannot be empty

PasswordConfirm: Please enter your password again

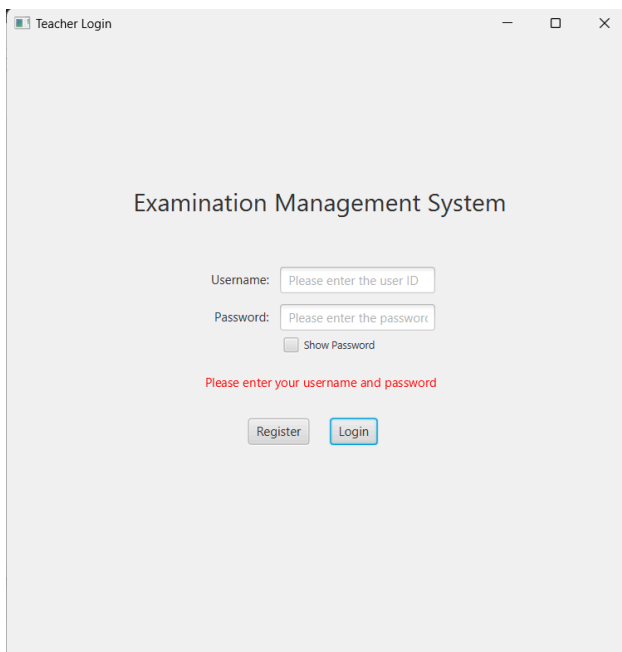
☐ Show Password

Please Re-enter your password

Close Register

Empty Field

2. Teacher Login



Teacher Login

Examination Management System

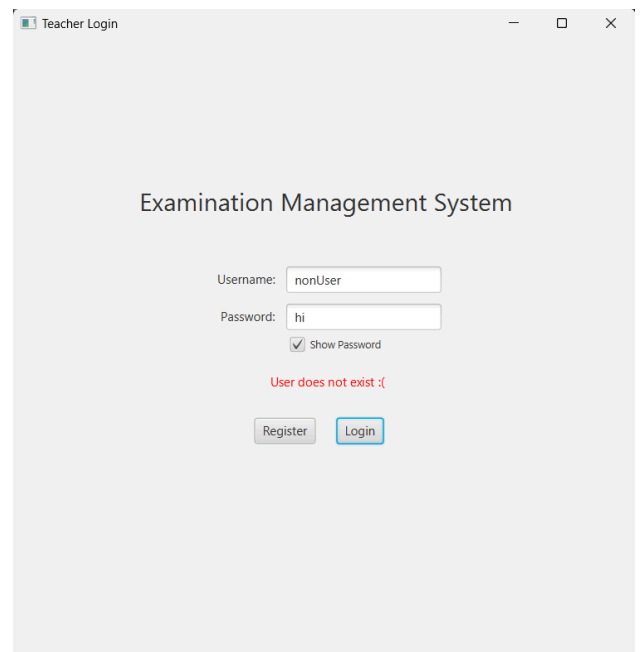
Username:

Password:

☐ Show Password

Please enter your username and password

Empty Field



Teacher Login

Examination Management System

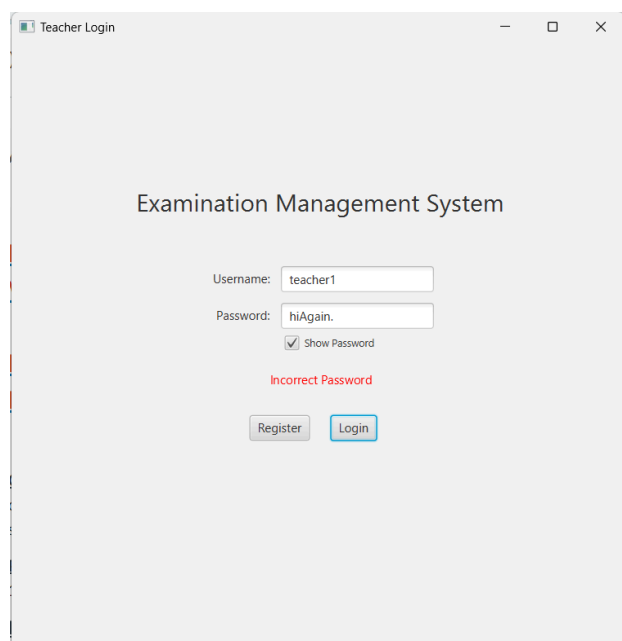
Username:

Password:

☒ Show Password

User does not exist :(

User not exist



Teacher Login

Examination Management System

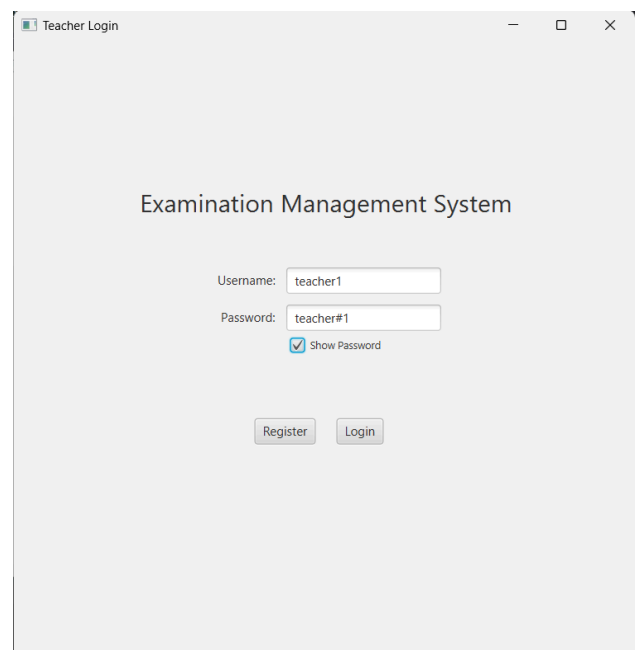
Username:

Password:

☒ Show Password

Incorrect Password

Incorrect password



Teacher Login

Examination Management System

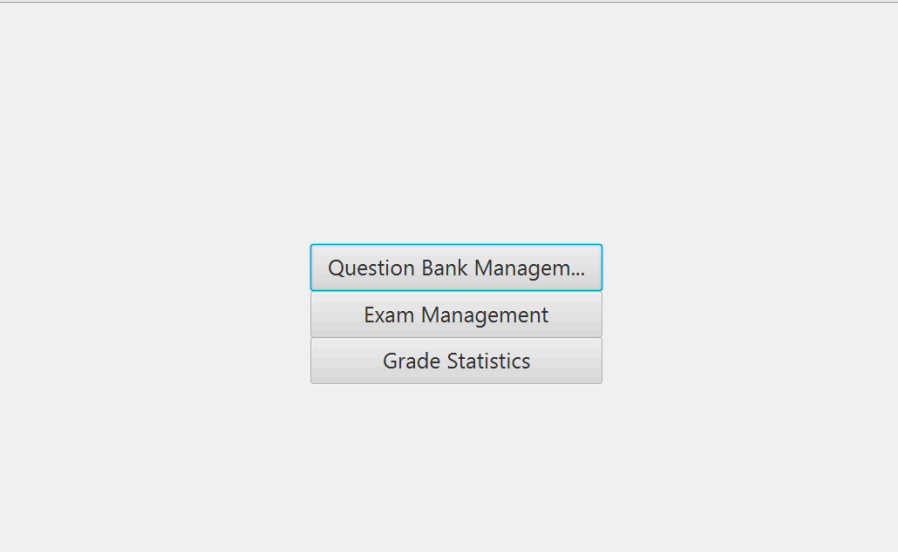
Username:

Password:

☒ Show Password

correct login info

3. After Login



The screenshot shows a web browser window titled "Hi teacher1, Welcome to HKUST Examination System". Below the title bar, there is a header area with the word "Options". The main content area is light gray and contains three vertically stacked buttons. The top button, "Question Bank Managem...", is highlighted with a blue border. The middle button is "Exam Management" and the bottom button is "Grade Statistics". Both the middle and bottom buttons have a light gray gradient background.

Hi teacher1, Welcome to HKUST Examination System

Options

Question Bank Managem...

Exam Management

Grade Statistics

4. Question Management Bank

[illegible]

4.1. Add question

Question Bank Management

Question: Type: Score:

Question Editor

Question:

AddQuestion

Type:

Option A:

A

Option B:

B

Option C:

C

Option D:

D

Answer:

☒ A ☐ B ☐ C ☐ D

Score

10

Add Update Delete

Clear

Refresh

Question	Type	Option A	Option B	Option C	Option D	Answer	Score
How to spell ja...	Single	j	ja	jav	java	[A]	10
How many cup...	Single	5	6	7	8	[D]	5
How much drin...	Single	118	76	94	I don't kn...	[D]	30
Why water res...	Multiple	Most wat...	Certainl...	Meteorit...	Water res...	[B, C]	20
Transposi...						[C]	25
Speciation						[A, C, D]	25
Gene Reg...						[A]	50
Chimpanz...						[B]	0
3						[C]	10
3						[A]	10
3						[B]	10
1/1=	Single	0	1	2	3	[B]	10
Is this test diffic...	Single	Easy!	Not too d...	Quite chal...	Can I eve...	[A]	0

[illegible]

4.2. Update question

[illegible][illegible]

4.3.

Delete Question

[illegible][illegible]

4.4. Filter Question

[illegible][illegible]

5. Exam Management Bank

5.1. Add Exam

Exam Name:

Course:

Published:

Reset

Filter

Exam Manager

Exam Name:

Time Limit:

For Course:

COMP 3111

Publish?

Add

Update

Delete

Clear

Refresh

Exam Name	Course ID	Exam Time	Published
Math level Preliminary Test	MATH 1013	12	true
Midterm MC	MATH 1014	60	true
Lecture Quiz	COMP 3111	3000	false
Final Exam question draft	MGMT 1010	100	false

Question:

Type:

Score:

Reset

Filter

Exam Question	Type	Score
No content in table		

>> Delete Question from Left >>

<< Add Question to Left <<

Exam Name:

Course:

Published:

Reset

Filter

Exam Manager

Exam Name:

Time Limit:

For Course:

COMP 3111

Publish?

Add

Update

Delete

Clear

Refresh

Exam Name	Course ID	Exam Time	Published
Math level Preliminary Test	MATH 1013	12	true
Midterm MC	MATH 1014	60	true
Lecture Quiz	COMP 3111	3000	false
Final Exam question draft	MGMT 1010	100	false

Question:

Type:

Score:

Reset

Filter

Exam Question	Type	Score	Question	Type	Score
How to spell java?	Single	10	How many cups of water...	Single	5
			How much drinking foun...	Single	30
			Why water resources are ...	Multiple	20
			mRNA is created in a cell...	Single	25
			What does natural selecti...	Multiple	25
			Which choice below isn't ...	Single	50
			How are human different...	Single	0
			1+1=	Single	10
			1-1=	Single	10
			1*1=	Single	10

>> Delete Question from Left >>

<< Add Question to Left <<

Exam Management

Exam Name:

Course:

Published:

Reset

Filter

Exam Manager

Exam Name:

AddedExam

Time Limit:

10

For Course:

COMP 3111

Publish?

Add

Update

Delete

Clear

Refresh

Water Quiz

In-class quiz

In-class activ

Math level P

Questions:

Exam Question

Type

Score

How to spell java?

Single

10

Question

Type

Score

How many cups of water...

Single

5

20

true

40

true

30

true

12

true

Reset

Filter

OK

Cancel

Exam Time

Published

20

true

40

true

30

true

12

true

Reset

Filter

Reset

Filter

How to spell java?

Single

10

How many cups of water...

Single

5

How much drinking foun...

Single

30

Why water resources are ...

Multiple

20

mRNA is created in a cell...

Single

25

What does natural selecti...

Multiple

25

Which choice below isn't ...

Single

50

How are human different...

Single

0

1+1=

Single

10

1-1=

Single

10

1*1=

Single

10

>> Delete Question from Left >>

<< Add Question to Left <<

Confirmation

Add exam?

?

OK

Cancel

Exam Management

Exam Name:

Course:

Published:

Reset

Filter

Exam Manager

Exam Name:

Time Limit:

second

For Course:

Publish?

Add

Update

Delete

Clear

Refresh

Exam Name

Course ID

Exam Time

Published

Midterm MC

MATH 1014

60

true

Lecture Quiz

COMP 3111

3000

false

Final Exam question draft

MGMT 1010

100

false

AddedExam

COMP 3111

10

false

Question:

Type:

Score:

Reset

Filter

Exam Question

Type

Score

No content in table

Question

Type

Score

How many cups of water...

Single

5

How much drinking foun...

Single

30

Why water resources are ...

Multiple

20

mRNA is created in a cell...

Single

25

What does natural selecti...

Multiple

25

Which choice below isn't ...

Single

50

How are human different...

Single

0

1+1=

Single

10

1-1=

Single

10

1*1=

Single

10

>> Delete Question from Left >>

<< Add Question to Left <<

5.2. Edit Exam

Exam Management

Exam Name: Course: Published:

Exam Manager

Exam Name:

Time Limit:

For Course:

☐ Publish?

Exam Name	Course ID	Exam Time	Published
Midterm MC	MATH 1014	60	true
Lecture Quiz	COMP 3111	3000	false
Final Exam question draft	MGMT 1010	100	false
AddedExam	COMP 3111	10	false

Question: Type: Score:

Exam Question	Type	Score	Question	Type	Score
How to spell java?	Single	10	How many cups of water...	Single	5
			How much drinking foun...	Single	30
			Why water resources are ...	Multiple	20
			mRNA is created in a cell...	Single	25
			What does natural selecti...	Multiple	25
			Which choice below isn't ...	Single	50
			How are human different...	Single	0
			1+1=	Single	10
			1-1=	Single	10
			1*1=	Single	10

>> Delete Question from Left >> << Add Question to Left <<

Exam Management

Exam Name: Course: Published:

Exam Manager

Exam Name:

Time Limit:

For Course:

☐ Publish?

Exam Name	Course ID	Exam Time	Published
Midterm MC	MATH 1014	60	true
Lecture Quiz	COMP 3111	3000	false
Final Exam q	MGMT 1010	100	false
AddedExam	COMP 3111	10	false

Question: Type: Score:

Exam Question	Type	Score	Question	Type	Score
How to spell java?	Single	10	How much drinking foun...	Single	30
How many cups of water...	Single	5	Why water resources are ...	Multiple	20
			mRNA is created in a cell...	Single	25
			What does natural selecti...	Multiple	25
			Which choice below isn't ...	Single	50
			How are human different...	Single	0
			1+1=	Single	10
			1-1=	Single	10
			1*1=	Single	10
			1/1=	Single	10

>> Delete Question from Left >> << Add Question to Left <<

Confirmation

Update Exam?

5.3. Delete Exam

Exam Management

Exam Name: Course: Published:

Exam Manager

Exam Name: UpdatedExam

Time Limit: 20

For Course: ELEC 2100

☐ Publish?

Confirmation

Delete Exam?

Exam Question	Type	Score
How to spell java?	Single	10
How many cups of water...	Single	5

>> Delete Question from Left >>

Exam Time	Published
60	true
3000	false
100	false
20	false

Exam Management

Exam Name: Course: Published:

Exam Manager

Exam Name:

Time Limit: second

For Course:

☐ Publish?

Exam Name	Course ID	Exam Time	Published
Math level Preliminary Test	MATH 1013	12	true
Midterm MC	MATH 1014	60	true
Lecture Quiz	COMP 3111	3000	false
Final Exam question draft	MGMT 1010	100	false

Exam Question	Type	Score
No content in table		

>> Delete Question from Left >>

Question	Type	Score
How to spell java?	Single	10
How many cups of water...	Single	5
How much drinking foun...	Single	30
Why water resources are ...	Multiple	20
mRNA is created in a cell...	Single	25
What does natural selecti...	Multiple	25
Which choice below isn't ...	Single	50
How are human different...	Single	0
1+1=	Single	10
1-1=	Single	10

<< Add Question to Left <<

5.4. Filter Exam

Exam Management

Exam Name:

Course:

Published:

Reset

Filter

Exam Manager

Exam Name:

Time Limit:

For Course:

Publish? ☐

Add Update Delete

Clear

Refresh

Exam Name	Course ID	Exam Time	Published
In-class quiz	LIFS 3030	40	true
In-class activity	LIFS 3030	30	true

Question: Type: Score:

Reset Filter

Exam Question	Type	Score	Question	Type	Score
No content in table			How to spell java?	Single	10
			How many cups of water...	Single	5
			How much drinking foun...	Single	30
			Why water resources are ...	Multiple	20
			mRNA is created in a cell...	Single	25
			What does natural selecti...	Multiple	25
			Which choice below isn't ...	Single	50
			How are human different...	Single	0
			1+1=	Single	10
			1-1=	Single	10

>> Delete Question from Left >> << Add Question to Left <<

Exam Management

Exam Name:

Course:

Published:

Reset

Filter

Exam Manager

Exam Name:

Time Limit:

For Course:

Publish? ☐

Add Update Delete

Clear

Refresh

Exam Name	Course ID	Exam Time	Published
Math level Preliminary Test	MATH 1013	12	true

Question: Type: Score:

Reset Filter

Exam Question	Type	Score	Question	Type	Score
No content in table			How to spell java?	Single	10
			How many cups of water...	Single	5
			How much drinking foun...	Single	30
			Why water resources are ...	Multiple	20
			mRNA is created in a cell...	Single	25
			What does natural selecti...	Multiple	25
			Which choice below isn't ...	Single	50
			How are human different...	Single	0
			1+1=	Single	10
			1-1=	Single	10

>> Delete Question from Left >> << Add Question to Left <<

Exam Management

Exam Name:

Course:

Published:

false

Reset

Filter

Exam Manager

Exam Name:

Time Limit:

second

For Course:

Publish? ☐

Add

Update

Delete

Clear

Refresh

Exam Name

Course ID

Exam Time

Published

Lecture Quiz	COMP 3111	3000	false
Final Exam question draft	MGMT 1010	100	false

Question:

Type:

Score:

Reset

Filter

Exam Question

Type

Score

No content in table			<div>How to spell java?</div> <div>Single</div> <div>10</div>
			<div>How many cups of water...</div> <div>Single</div> <div>5</div>
			<div>How much drinking foun...</div> <div>Single</div> <div>30</div>
			<div>Why water resources are ...</div> <div>Multiple</div> <div>20</div>
			<div>mRNA is created in a cell...</div> <div>Single</div> <div>25</div>
			<div>What does natural selecti...</div> <div>Multiple</div> <div>25</div>
			<div>Which choice below isn't ...</div> <div>Single</div> <div>50</div>
			<div>How are human different...</div> <div>Single</div> <div>0</div>
			<div>1+1=</div> <div>Single</div> <div>10</div>
			<div>1-1=</div> <div>Single</div> <div>10</div>

>> Delete Question from Left >>

<< Add Question to Left <<

5.5. Filter Question

Exam Management

Exam Name:

Course:

Published:

Reset

Filter

Exam Manager

Exam Name:

Time Limit:

second

For Course:

Publish? ☐

Add

Update

Delete

Clear

Refresh

Exam Name

Course ID

Exam Time

Published

Water Quiz	ENVR 1010	20	true
In-class quiz	LIFS 3030	40	true
In-class activity	LIFS 3030	30	true
Math level Preliminary Test	MATH 1013	12	true

Question:

How

Type:

Score:

Reset

Filter

Exam Question

Type

Score

No content in table			<div>How to spell java?</div> <div>Single</div> <div>10</div>
			<div>How many cups of water...</div> <div>Single</div> <div>5</div>
			<div>How much drinking foun...</div> <div>Single</div> <div>30</div>
			<div>How are human different...</div> <div>Single</div> <div>0</div>

>> Delete Question from Left >>

<< Add Question to Left <<

Exam Management

Exam Name:

Course:

Published:

Reset

Filter

Exam Manager

Exam Name:

Time Limit:

For Course:

Publish? ☐

Add

Update

Delete

Clear

Refresh

Exam Name	Course ID	Exam Time	Published
Water Quiz	ENVR 1010	20	true
In-class quiz	LIFS 3030	40	true
In-class activity	LIFS 3030	30	true
Math level Preliminary Test	MATH 1013	12	true

Question: Type:

Multiple

 Score:

Reset

Filter

Exam Question	Type	Score	Question	Type	Score
No content in table			Why water resources are ...	Multiple	20
			What does natural selecti...	Multiple	25

>> Delete Question from Left >>

<< Add Question to Left <<

Exam Management

Exam Name:

Course:

Published:

Reset

Filter

Exam Manager

Exam Name:

Time Limit:

For Course:

Publish? ☐

Add

Update

Delete

Clear

Refresh

Exam Name	Course ID	Exam Time	Published
Water Quiz	ENVR 1010	20	true
In-class quiz	LIFS 3030	40	true
In-class activity	LIFS 3030	30	true
Math level Preliminary Test	MATH 1013	12	true

Question: Type: Score:

10

Reset

Filter

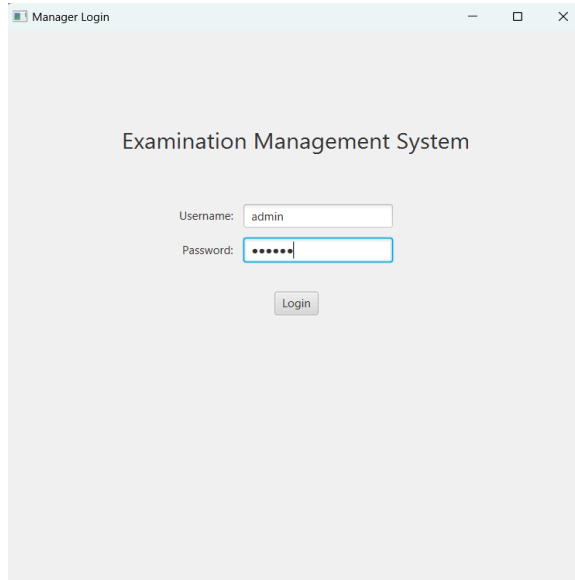
Exam Question	Type	Score	Question	Type	Score
No content in table			How to spell java?	Single	10
			1+1=	Single	10
			1-1=	Single	10
			1*1=	Single	10
			1/1=	Single	10

>> Delete Question from Left >>

<< Add Question to Left <<

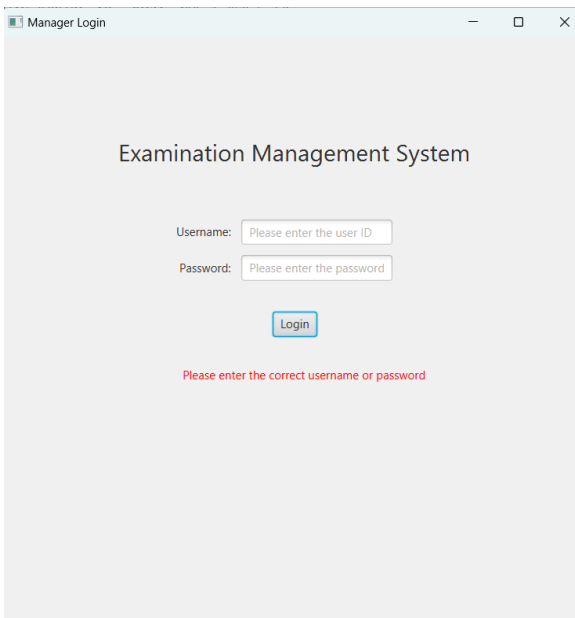
Manager

1. Manager Login



The screenshot shows a web browser window titled "Manager Login". The page has a light gray background and the title "Examination Management System" centered at the top. Below the title, there are two input fields: "Username:" with the value "admin" and "Password:" with masked characters "*****". A "Login" button is positioned below the password field. The browser window includes standard OS controls (minimize, maximize, close) in the top right corner.

The sample input,
Username: *admin*
Password: *calvin*



The screenshot shows the same "Manager Login" window, but the login attempt has failed. The "Username:" field now contains the placeholder text "Please enter the user ID" and the "Password:" field contains "Please enter the password". The "Login" button is highlighted with a blue border. Below the input fields, a red error message reads: "Please enter the correct username or password". The browser window controls remain visible in the top right corner.

Entry checking

2. Manage student information

The screenshot shows a web application titled "Student Manager". At the top, there are input fields for "Username:", "Name:", and "Department:", followed by "Filter" and "Reset" buttons. Below this is a table with the following columns: Username, Name, Age, Gender, Department, and Password. The table contains 15 rows of student data. To the right of the table is a form with input fields for "Username:", "Name:", "Age:", "Gender:" (a dropdown menu), "Department:", and "Password:". At the bottom right of the application are buttons for "Delete", "Refresh", "Add", and "Update".

Username	Name	Age	Gender	Department	Password
marco	marco	12	Male	CSE	marco!!!
curtis	curtis	20	Male	CSE	securepassword!
calvin	calvin	10	Male	DSE	1
marcoLee	marco	22	Male	ECE	password!
Kenneth Leung	Kenneth Leung	40	Male	CSE	kenneth!
marcoTest	marco	10	Male	CLS	password!
student1	student1	20	Male	CIVIL	123
student2	student2	20	Female	MATH	234
student3	student3	20	Male	PHYS	345
student4	student4	20	Female	CPEG	456
test101	test	23	Male	CS	password!

The student management UI

This screenshot shows the same "Student Manager" application, but with the "Filter" button highlighted in blue. The "Username" input field now contains the text "student". The table below shows only the four students whose usernames match the filter: student1, student2, student3, and student4. The rest of the interface, including the form on the right and the bottom buttons, remains the same.

Username	Name	Age	Gender	Department	Password
student1	student1	20	Male	CIVIL	123
student2	student2	20	Female	MATH	234
student3	student3	20	Male	PHYS	345
student4	student4	20	Female	CPEG	456

Filter student

Student Manager

Username: Name: Department: Filter Reset

Username	Name	Age	Gender	Department	Password
marco	marco	12	Male	CSE	marco!!
curtis	curtis	20	Male	CSE	securepassword!
calvin	calvin	10			
marcoLee	marco	22			assword!
Kenneth Leung	Kenneth Leung	40			nenneth!
marcoTest	marco	10			assword!
student1	student1	20			23
student2	student2	20			34
student3	student3	20			45
student4	student4	20			456
test101	test	23	Male	CS	password!

Confirmation X

Update the selected student ?

OK Cancel

Username:

Name:

Age:

Gender:

Department:

Password:

Delete Refresh Add Update

3. Manage teacher information

[illegible]

[illegible]

Teacher Manager

Username: Name: Department: Filter Reset

Username	Name	Age	Position	Gender	Department	Password
Curtis	Lau Kin Lun	20	Undergraduate	Male	CSE	greentis!
teacher1	Teach2	30	Senior Lecturer	Male	ENVR	teacher#1
teacher2	teacher2	50				teacher#2
calvin	Tang Kewei	20				123

Confirmation

Add the new teacher ?

OK Cancel

Username:

Name:

Gender:

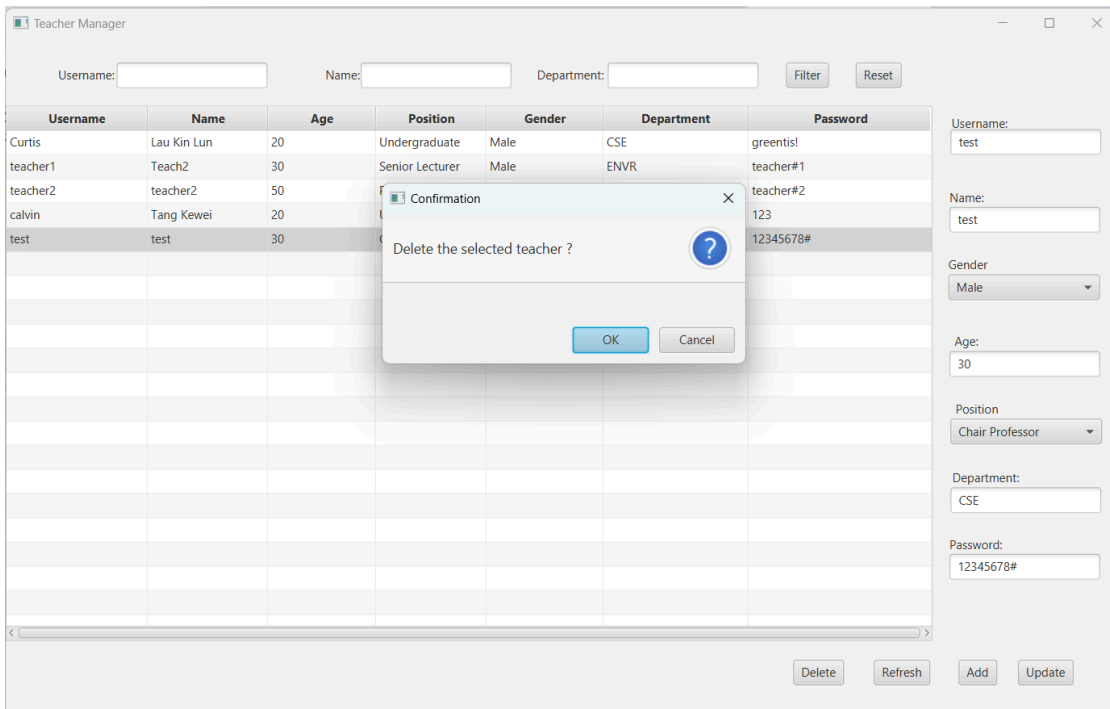
Age:

Position:

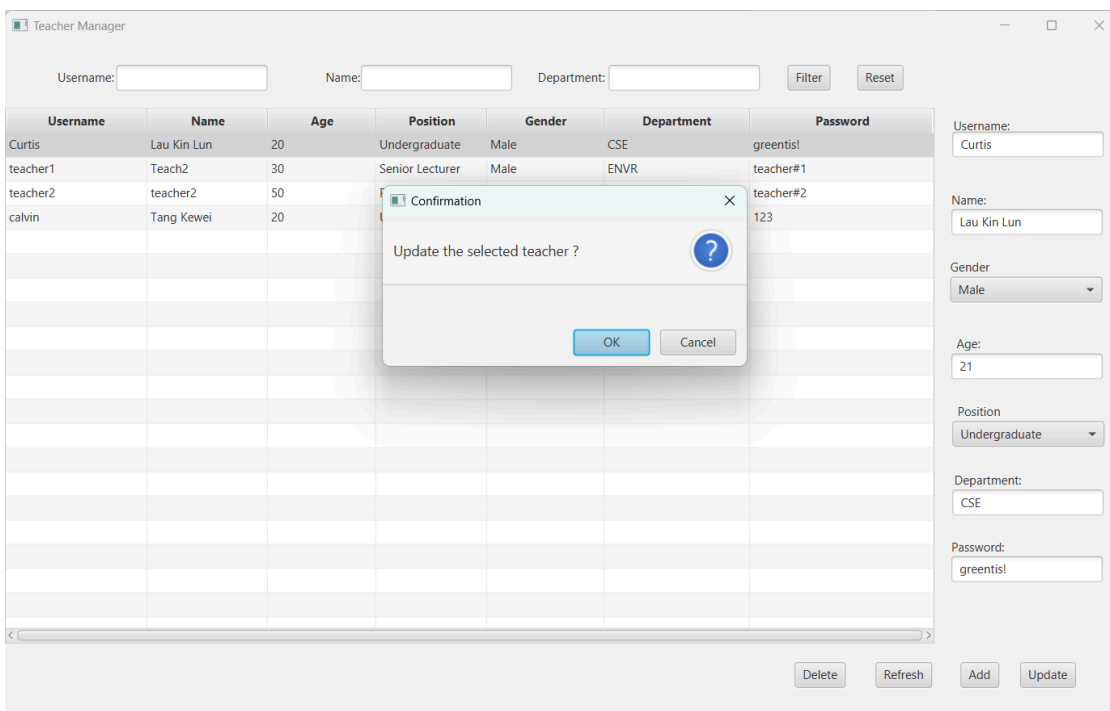
Department:

Password:

Delete
Refresh
Add
Update



Delete teacher



Update teacher

4. Manage course

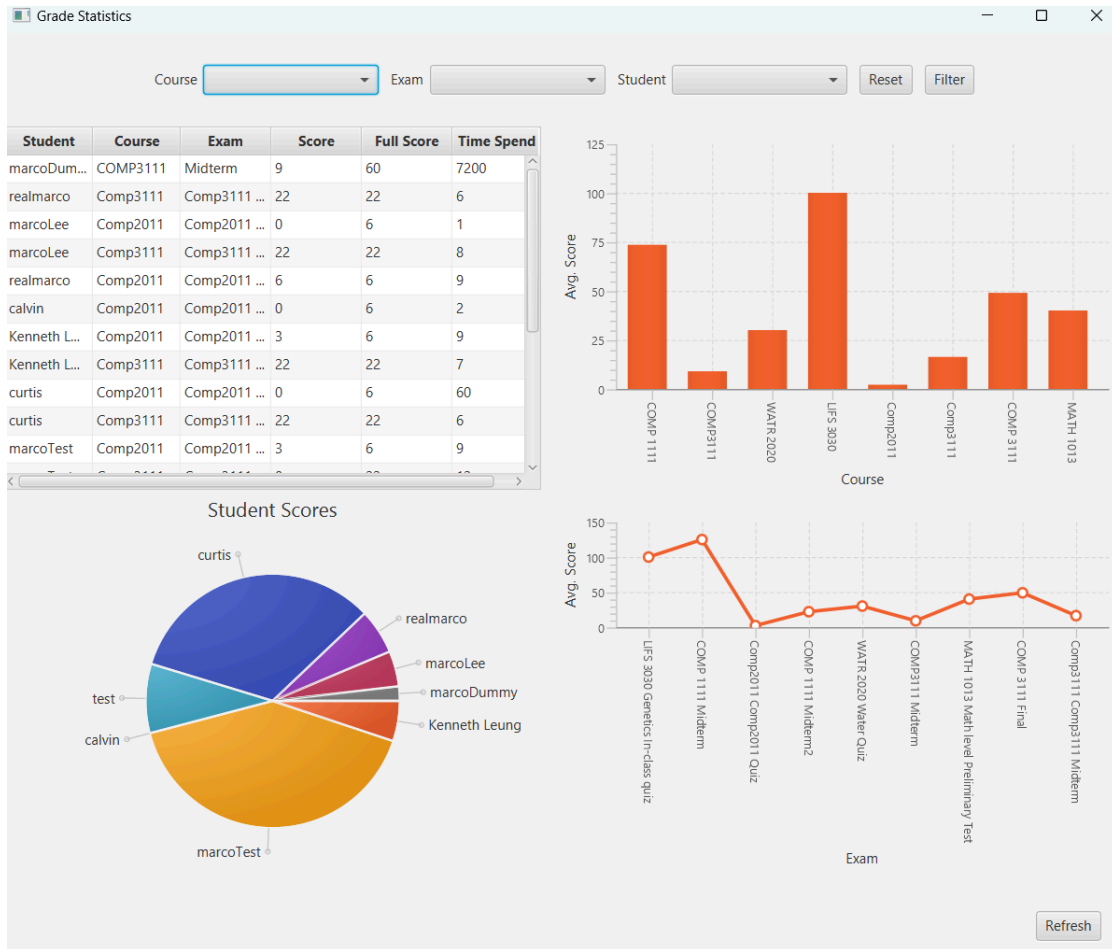
[illegible]

Course Management UI

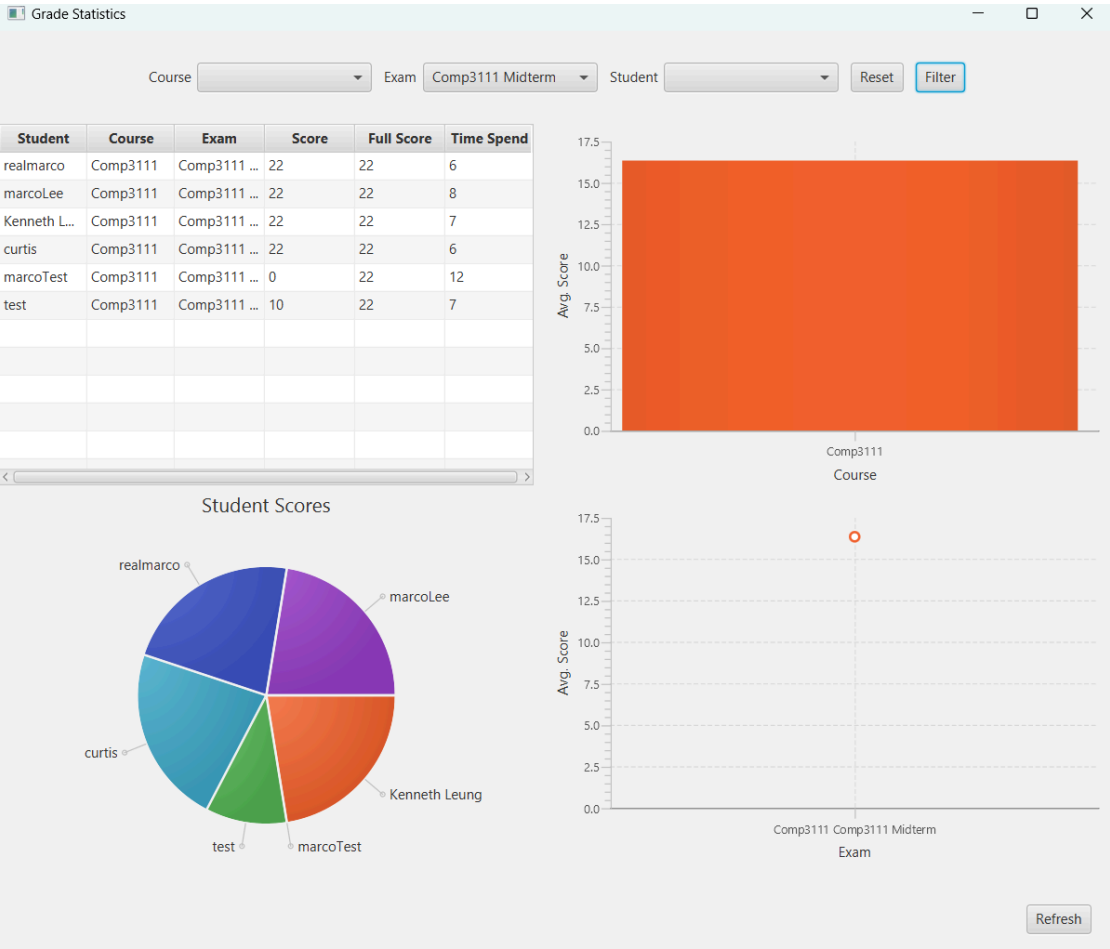
[illegible]

Filter course

5. View Grade Statistics



Grade statistic UI



Filter grade