QUIZ APPLICATION USER GUIDE

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Setting up the quiz program

1.1 Installing the pre-requisites

The quiz program requires

- 1. Java JRE 1.8 and JDK 1.8
- 2. IDE (Eclipse) as it is a console application
- 3. H2 database (jar used h2-1.4.197.jar)

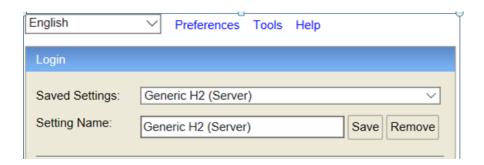


- 1.2 Import the program from Github into Eclipse https://github.com/abhinayadurgi/JavaFundamental_Quiz.git
- 1.3 Setup the backend

Download H2 database and install it. Give the credentials. Test the connection

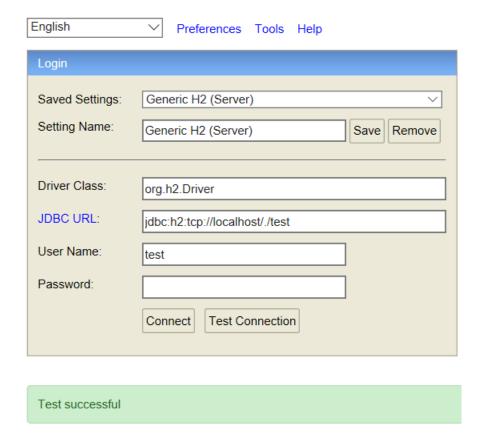
Use the same settings

Generic H2 (Server)



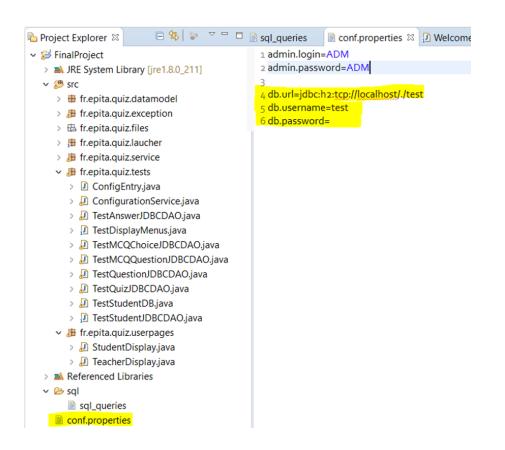
Server mode

These are the parameters used in the program.



If your credentials are different, these changes must be made in the program.

In the program, the database connection details are stored in the conf.properties file. Edit the conf.properties file with your credentials



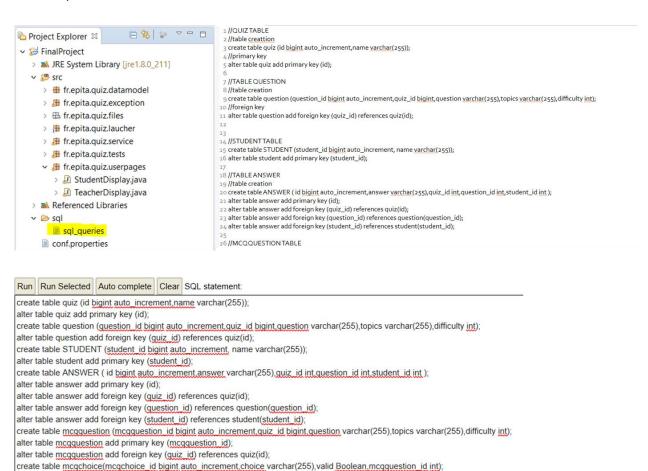
1.4 Creating the tables

There is a sql_queries file in the folder SQL

alter table mcqchoice add primary key (mcqchoice id);

alter table mcqchoice add foreign key (mcqquestion_id) references mcqquestion(mcqquestion_id);

Run the queries in the same order in the H2 console to create the tables.



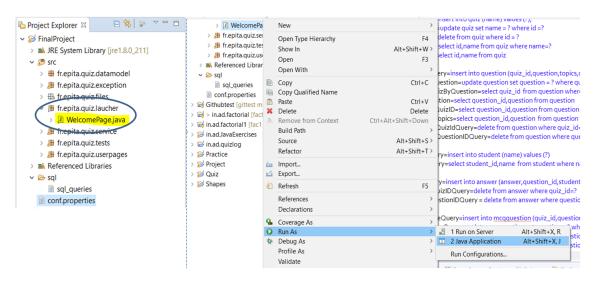
LAUNCHING THE PROGRAM

The main method of the program is in the launcher package of the project

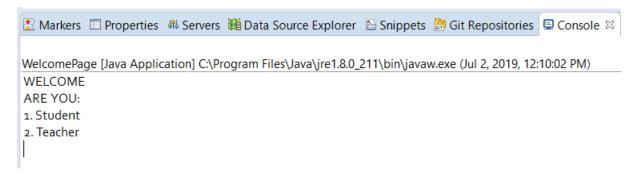
The class with the main method is called WelcomePage.java

Run this class to launch the program

Right Click on the WelcomePage.class -> Run As -> Java Application



It displays the welcome page on running the application



Note: When the program is first executed, the tables are empty and do not have data. The data must be created by the user. So Create quiz, open questions and MCQ questions before taking a quiz.

In case of a connection problem, it displays an error and terminates. Please check the connection and try again.

1	
Enter name:	
Hagrid	
Problem connecting to the database	
Please check connections and try again	
/	

USING THE APPLICATION AS A TEACHER

A teacher has to provide login and password.
Login : ADM
Password: ADM
After successful login, the menu is displayed
Please enter your login: ADM Please enter your password: ADM Menu 1.Create a quiz 2. Update a quiz 3. Delete a quiz 4. Create an open question in a quiz 5. Update an open question 6. Delete an open question 7. Create an MCQQuestion in a quiz 8. Update an MCQQuestion 9. Delete an MCQQuestion 10. Sign out Enter choice
If login fails,
It displays the text "Invalid login/Password" and the previous menu
Please enter your login : ADMIN Please enter your password : ADMIN Invalid Login / Password WELCOME

ARE YOU: 1. Student 2. Teacher

CREATE A QUIZ

Choose 1. Create a quiz from the menu by typing '1'

Enter the quiz title when prompted

Menu

- 1.Create a quiz
- 2. Update a quiz
- 3. Delete a quiz
- 4. Create an open question in a quiz
- 5. Update an open question
- 6. Delete an open question
- 7. Create an MCQQuestion in a quiz
- 8. Update an MCQ Question
- 9. Delete an MCQ Question
- 10. Sign out

Enter choice

1

Enter the quiz title

Java programming

There cannot be two quizzes with the same name. The program checks, and if a quiz with the same name exists, it displays 'Already Exists'

Menu

- 1.Create a quiz
- 2. Update a quiz
- 3. Delete a quiz
- 4. Create an open question in a quiz
- 5. Update an open question
- 6. Delete an open question
- 7. Create an MCQQuestion in a quiz
- 8. Update an MCQ Question
- 9. Delete an MCQ Question
- 10. Sign out

Enter choice

1

Enter the quiz title

Java programming

Already exists

Manu

UPDATE A QUIZ

A quiz title can be updated. To update a quiz, choose 'Update a quiz' by typing '2'.

It displays the available quizzes. Type the quiz number to be updated.

Enter the new title

Menu 1.Create a quiz 2. Update a quiz 3. Delete a quiz 4. Create an open question in a quiz 5. Update an open question 6. Delete an open question 7. Create an MCQQuestion in a quiz 8. Update an MCQ Question 9. Delete an MCQ Question 10. Sign out Enter choice 33. Java programming Enter the quiz ID to be updated Enter the new title Java

DELETE A QUIZ

To delete a quiz, choose 'Delete a quiz' by typing '3'.

It displays the available quizzes. Type the quiz number to be deleted

```
Menu

1. Create a quiz

2. Update a quiz

3. Delete a quiz

4. Create an open question in a quiz

5. Update an open question

6. Delete an open question

7. Create an MCQ Question in a quiz

8. Update an MCQ Question

9. Delete an MCQ Question

10. Sign out

Enter choice

3

33 . Java

Enter the Quiz ID to be deleted
```

Deleting a quiz deletes all the corresponding questions and answers that belong to the deleted quiz

CREATE AN OPEN QUESTION IN A QUIZ

An open question can be created for a quiz. A question also has topics and difficulty.

To create an open question in a quiz, choose 'Create an open question in a quiz' by typing '4'

It displays the available guizzes

Choose the quiz you want to add the question in by typing the quiz number

Enter the question, if the question already exists, it displays "already exists".

Enter the quiz ID for the question

27

Enter the open question

Is java object oriented?

This open question already exists

.

If the question does not already exist, enter the topics and difficulty when prompted. A question can have any number of topics. The accepted levels of difficulty are: very_easy, easy, medium, hard, very_hard and extremely_hard

Enter choice

4

34. Java

Enter the quiz ID for the question

34

Enter the open question

What is java?

Enter topics

java

More topics? yes/no

yes

Enter topics

programming

More topics? yes/no

no

The Difficulty levels are:

VERY_EASY

EASY

MEDIUM

HARD

VERY_HARD

EXTREMELY_HARD

Enter the difficulty

very_easy

If an invalid value is entered, it displays an error message

The Difficulty levels are:
VERY_EASY
EASY
MEDIUM
HARD
VERY_HARD
EXTREMELY_HARD
Enter the difficulty
difficult
Enter correct value
Enter the difficulty

UPDATE AN OPEN QUESTION:

To update an open question, choose 'Update an open question' by typing '5'.

It displays the available questions. Enter the ID of the question to be updated. Enter the updated question.

Enter choice

5

1. What is java?

2. Is java object oriented?

Enter the question ID to be updated

1

Enter the new question

What is java programming?

DELETE AN OPEN QUESTION

To delete an open question, choose 'Delete an open question' by typing '6'.

It displays the available questions, Enter the ID of the question to be deleted.

Menu

- 1.Create a quiz
- 2. Update a quiz
- 3. Delete a quiz
- 4. Create an open question in a quiz
- 5. Update an open question
- 6. Delete an open question
- 7. Create an MCQQuestion in a quiz
- 8. Update an MCQ Question
- 9. Delete an MCQ Question
- 10. Sign out

Enter choice

6

- 2.Is java object oriented?
- 1. What is java programming?

Enter the question ID to be deleted

1

CREATE AN MCQ QUESTION IN A QUIZ

To create an MCQ Question, choose 'Create an MCQ Question' in a quiz by typing '7'

An MCQ Question has topics and difficulty. An MCQ Question can have any number of choices.

It displays a list of the available quizzes. Type the ID of the guiz for the MCQ Question to be added in.

Type the MCQ Question.

If the MCQ Question already exists, it displays the message "Already exists"

Enter the Quiz ID to add the MCQ Question in 34
Enter the question
Is multiple inheritance supported in java?
This mcq question laready exists

If it does not already exist,

Enter the topics, difficulty level when prompted.

Enter the choice and its validity (true for correct; false for wrong)

Enter the Quiz ID to add the MCQ Question in Enter the question Does java support multiple inheritance? Enter topics iava More topics? yes/no Enter topics programming More topics? yes/no The Difficulty levels are: VERY_EASY EASY MEDIUM HARD VERY_HARD EXTREMELY_HARD Enter the difficulty Enter the choice Enter the validity false More Choices? yes/no Enter the choice Enter the validity More Choices? yes/no no

An MCQ Question should have atleast 2 choices and a valid option. It prompts for a valid option if there is no valid option.

```
Enter the Quiz ID to add the MCQ Question in
Enter the question
 Which of the following is not an oops concept?
Enter topics
More topics? yes/no
Enter topics
More topics? yes/no
The Difficulty levels are:
VERY_EASY
EASY
MEDIUM
HARD
VERY_HARD
EXTREMELY_HARD
Enter the difficulty
Enter the choice
Enter the validity
More Choices? yes/no
Enter the choice
Enter the validity
More Choices? yes/no
```

UPDATE AN MCQ QUESTION

To update an MCQ Question, choose 'Update an MCQ Question' by typing '8'. It displays the available MCQ Questions. Choose the MCQ Question to updated by typing the ID of the MCQ Question. Enter the new MCQ Question.

```
Enter choice

1. Does java support multiple inheritance?

3. Which of the following is not an inheritance concept?

4. Which of the following is not an oops concept?

Enter the MCQ question ID to be updated

Enter the updated question

Is multiple inheritance supported in Java?
```

DELETE AN MCQ QUESTION

To delete an MCQ question choose 'Delete an MCQ Question' by typing '9'. It displays the available MCQ Questions. Enter the ID of the MCQ Question to be deleted. Deleting an MCQ Question deletes its choice also.

Enter choice

9

1.Is multiple inheritance supported in Java?

3. Which of the following is not an inheritance concept?

4. Which of the following is not an oops concept?

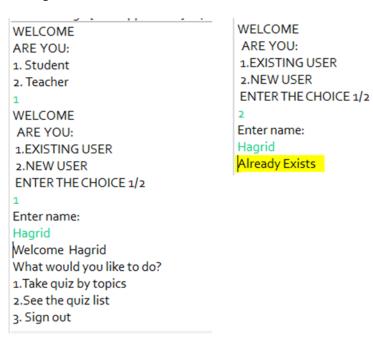
Enter the MCQ question ID to be deleted

1

USING THE APPLICATION AS A STUDENT

After choosing 'Student' on the welcome page, the application displays the studentlogin/signup option. An existing student can login. A new student must sign up. If an existing student tries to signup, it displays "Already Exists". After successful login/Signup, it displays the student menu

The login names are CASE SENSITIVE



A STUDENT TAKES A QUIZ

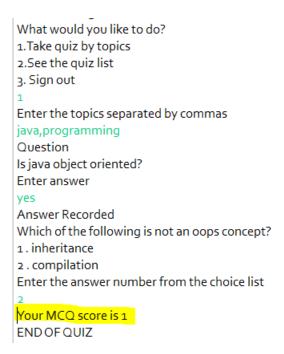
- 1. BASED ON TOPICS
- 2. CHOOSING A QUIZ FROM A LIST OF QUIZZES

TAKE A QUIZ BASED ON TOPICS:

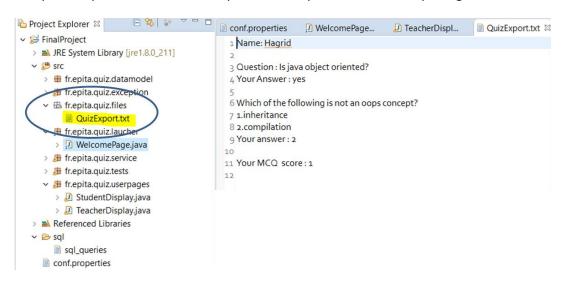
To take a quiz based on topics, choose 'Take quiz by topics' by typing '1'. Enter the topics separated by commas.

The program assembles a quiz based on the topics and displays the questions one at a time. The questions can be open and/or MCQ.

To answer an open question, type the answer, it will be recorded. For an MCQ Question, enter the ID of the correct choice. The MCQ score is calculated and displayed at the end of the quiz.



The quiz is exported to a file 'QuizExport.txt'. It is present in the files package.



If a quiz for the given topic is not available, it displays a 'not available' message.

Enter the topics separated by commas python
There are no questions for this topic!
END OF QUIZ
What would you like to do?
1. Take quiz by topics
2. See the quiz list
3. Sign out

TAKE A QUIZ BY CHOOSING A QUIZ FROM A LIST OF QUIZZES

To take a quiz from a list choose 'See the quiz list' by typing '2'. It displays the quiz list.

Choose the quiz by entering the ID of the quiz

Welcome Hagrid
What would you like to do?

1. Take quiz by topics

2. See the quiz list

3. Sign out

QUIZ LIST

34. Java

35. C programming
Which quiz would you like to take today?

The questions from the quiz are displayed one at a time. Type the answers for the open questions. Enter the ID of the correct MCQ Choice. (Same as above).

The MCQ Score is calculated and displayed in the end.

The quiz is exported to a file.