



FUNDAMENTAL JAVA PROJECT : QUIZ MANAGER

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USER GUIDE

1. Requirements

- IntelliJ or any other preferred IDE
- PostgreSQL (DBeaver)
- And other Dependencies available inside the project folder itself

2. Setting up the Project/Installation

Step1: Download the project zip from [here](#)

Step2: Extract the project files using any extractor program (WinRAR, 7zip)

Step3: Open the project file you downloaded in Step 1 using IntelliJ

Step4: Inside the IntelliJ IDE Go to File-> Project Structure -> Select Dependencies-> Click the + icon and add postgresql-42.4.0.jar, itextpdf-5.3.4.jar

Step5: Use the dump-quiz-manager-db.sql file available inside the project folder 'sql' to create the database

Step6: Open Dbeaver and Create a New Database.

Step7: Right click on the database you created and select tools->restore

Step8: In the restore dialog box now select the dump-quiz-manager-db.sql and click Start.

Step9: Now the database is cloned.

Step10: Go to credentials.properties file in the project and set up your desired admin username, admin password, filepath

Step11: Go to database.properties file in the project and set up your url, username, password of you postgresql server

Step12: Project is now ready to execute.

3. How to Use the Program (Admin/Student)

Open the main class under launcher folder and run the main class. Now you will be provided with welcome menu with numbers 1 to enter the program as the admin and 2 to enter the program as student and 3 to exit the program. Please enter your choice to enter the menu.

If you select 1 the program will prompt, you to enter the admin password and admin username.

If you select 2 the program will prompt, you to enter the student username and password.

If you select 3 the program will exit.

ADMIN MENU

After providing the admin password and username you will be provided with the admin menu.

If your credentials are correct, you will be entering admin menu inside the admin menu there will be 8 options with numbers 1-8.

You can perform various actions according to your needs.

Select 1 To create a question

Select 2 To delete a question

Select 3 To update a question

Select 4 To read a question

Select 5 To search a question

Select 6 to export a quiz as plain text

Select 7 To export a quiz as PDF.

Select 8 To Exit admin menu.

If you select any options from 1-7 you will be provided with 2 options in the next Menu.

You will be prompted with what type of questions you want to perform the operation you selected in the admin menu.

You can select Mcq are open questions.

If you select option 8, you will be provided with 4 New Options. You can create, read, update, delete a student.

Creating a Question:

If you select the option to create MCQ question. You will be asked to enter the question, topic, difficulty, correct answer, and wrong answer.

Delete the question:

If you select the option to delete a question. You will be asked to enter the question id.

Update a question:

If you select the option to update a question. You will be asked to enter the question id and the new question.

Read a question:

If you select the option to display all questions. You will be asked to enter the topic.

Search a question:

If you select the option to search a question. You will be asked to enter the question topic and ID.

Export – text:

Select the topic to get the quiz in txt format.

Export – pdf:

Select the topic to get the quiz in pdf format.

CRUD Operations on Student:

Create a student:

If you select the option to create a student. You will be asked to enter the student's name, password.

Delete a student:

If you select the option to delete a student. You will be asked to enter the student id.

Update a student:

If you select the option to update a student. You will be asked to enter the student id and the new student's name, password.

Read a student:

If you select the option to read a student. You will be asked to enter the student id.

STUDENT MENU

After providing the student password and username you will be provided with the student menu.

If your credentials are correct, you will be entering student menu inside the student menu there will be 2 options with numbers

1-2.

You can perform various actions according to your needs.

Select 1 To Take a normal quiz

Select 2 To Take a quiz based on difficulty level

Select 3 To Exit student menu.

If you select any options from 1-2 you will be provided with 2 options in the next Menu.

You will be prompted with what type of questions you want to perform the operation you selected in the student menu.

You can select Mcq are open questions.

Take a normal quiz:

If you select the option to take a normal quiz. You will be asked to enter the quiz topic. And then you will be prompted to enter the answers of each questions displayed.

Take a quiz based on difficulty level:

If you select the option to take a quiz based on difficulty level. You will be asked to enter the difficulty level. And then you will be prompted to enter the answers to each questions displayed.

After Taking the quiz you will be provided with the score.

And then you will be provided with the option to export the quiz as pdf.