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# User Guide for EPITA Java Quiz Conceived and Developed by NGYIBI VADRAMA NDISANG.

Amin Codes To login as Admin 604, 605, 606

Existing Quiz Codes: Vadrama101, Vad102 and LastQuiz

## I. Installation

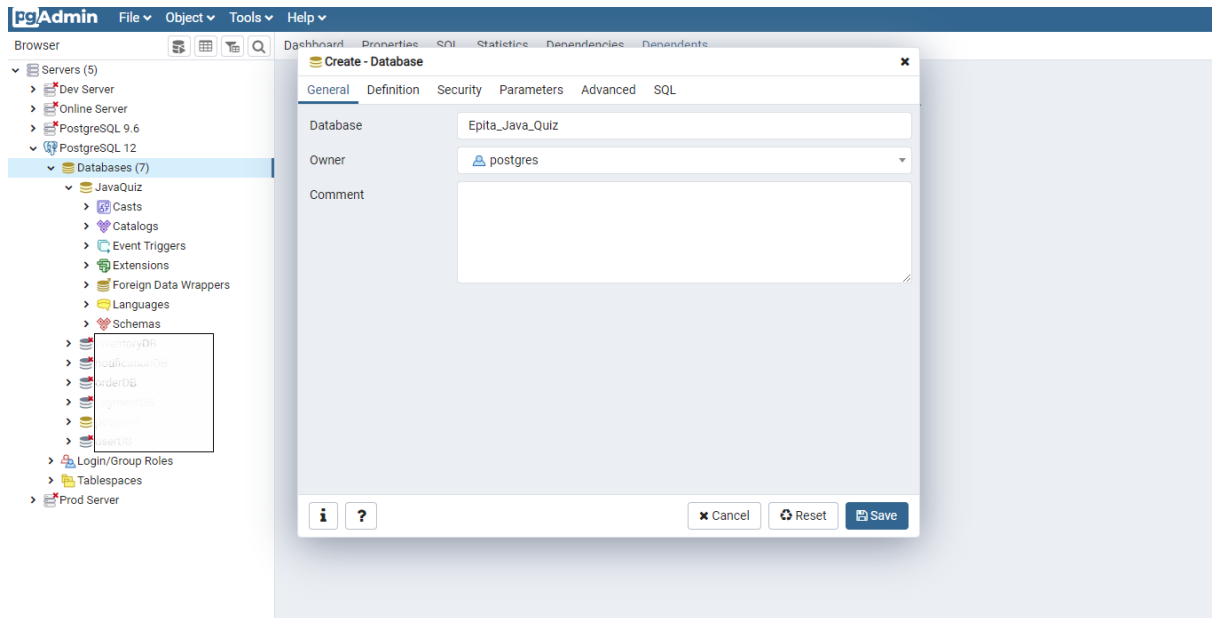
You will need a to have PostgreSQL version 12.4-1, and Jdk version 1.8.0\_31 install and classpath setup Appropriately.

### I.1 Database Installation

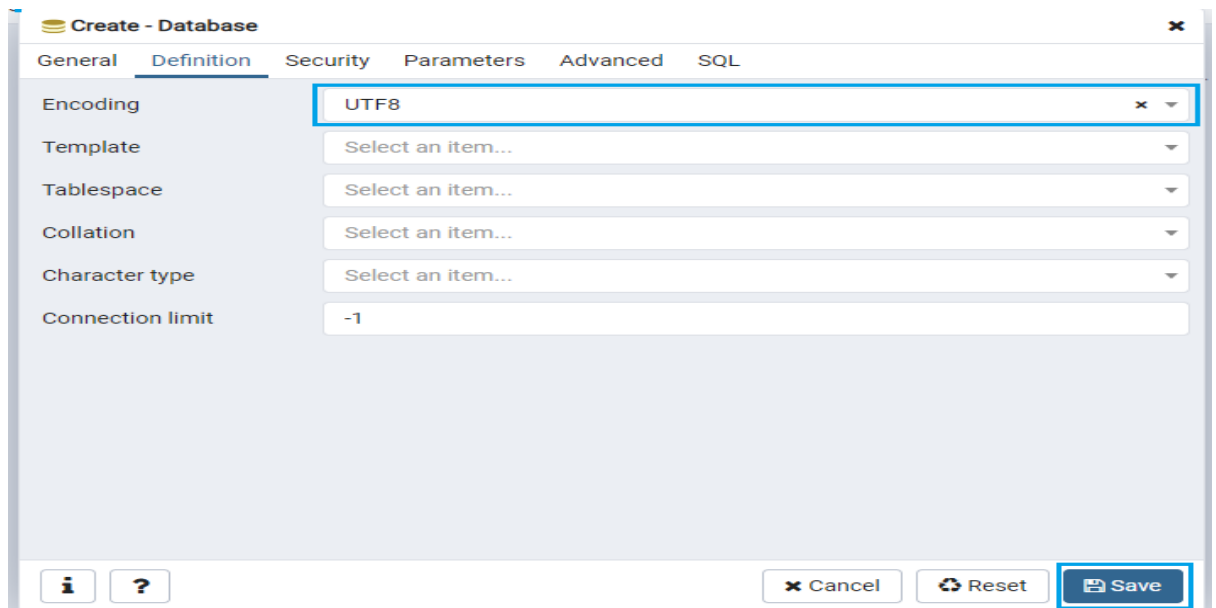
II.1 Unzip the file using either WinRAR or any other software of your choice.

III.1 Open the “**Final\_Java\_Project/DataBase**” folder to get the exported PostgreSQL Database

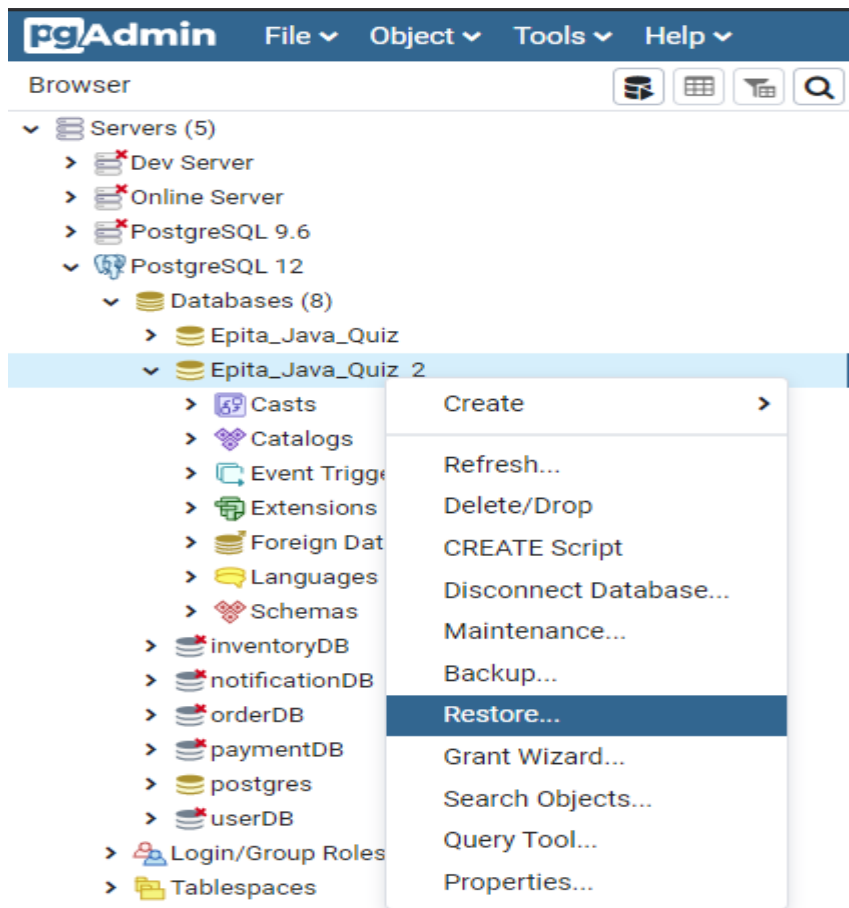
IV.1 Create an empty database name “Epita\_Java\_Quiz” and import the database as shown in the screenshots below



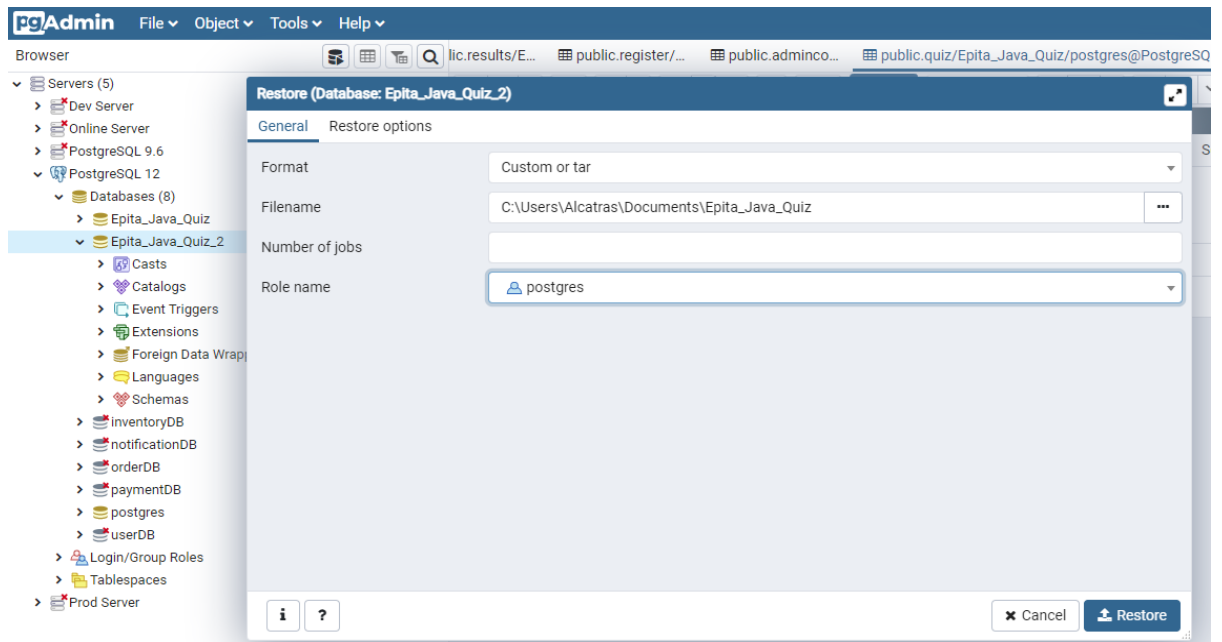
Create Database with the same specifications as shown



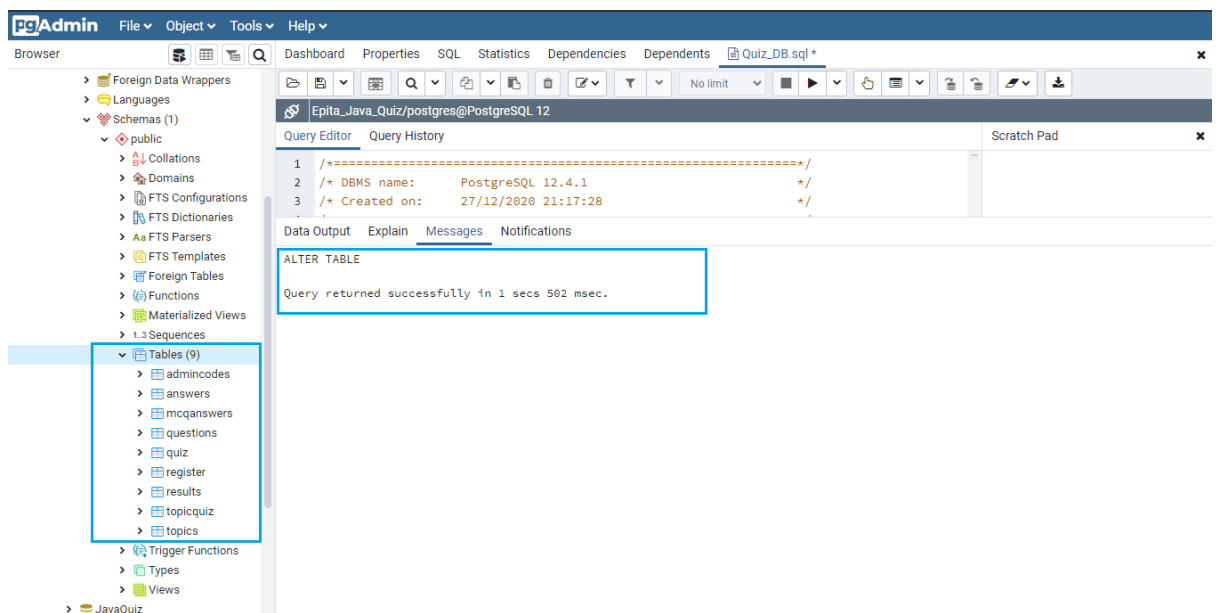
NB: use UTF-8 Encoding and set Role to postgres as seen in the screenshots



Click on restore and follow the in next image



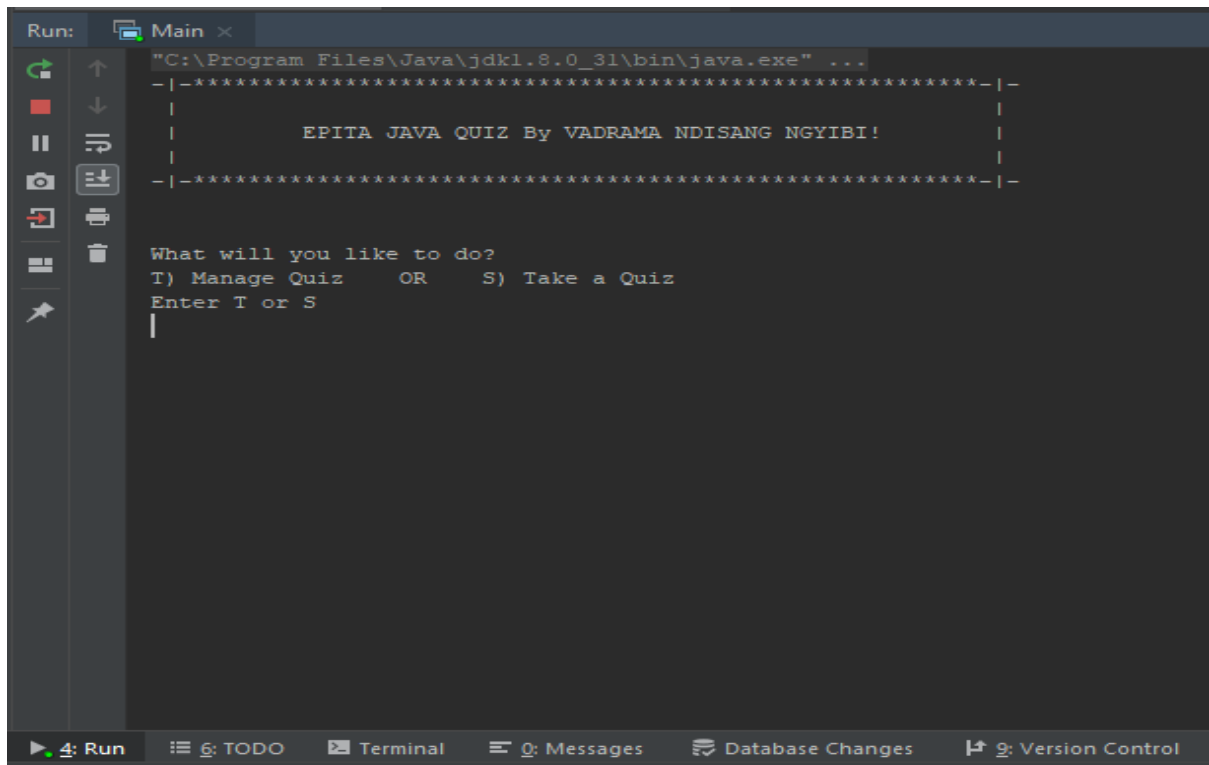
Navigate to the database file in **“Final\_Java\_Project/DataBase”** and select the file then click the restore button.



You should see all 9 tables of the Database restored.

## 1.2 Programme setup and running.

Open the project folder with your favourite IDE. From your IDE navigate to the folder **“Final\_Java\_Project\src\epita\fr\java\quiz\connection”** to change the existing password to your PostgreSQL server password and install the JDBC driver. Click on your IDE’s Run button to run the Program. You should see the following display in your IDE’s console.



```
Run: Main x
"C:\Program Files\Java\jdk1.8.0_31\bin\java.exe" ...
-|*****|
|
|          EPITA JAVA QUIZ By VADRAMA NDISANG NGYIBI!
|
|*****|
-|*****|

What will you like to do?
T) Manage Quiz    OR    S) Take a Quiz
Enter T or S
|
```

## II. Application Usage

### II.1 Add Question

To Add a Question, follow the Instructions on the screen by first entering “**T**”, followed by an Admin code of either (**604** or **605** or **606**). Once authenticated you will see the following screen.

```
Run: Main x
Enter T or S
Enter your Admin Code to confirm your Status
Authenticated
What will you like to do?
Q) To Manage Questions OR TP) To Manage Topics OR QZ) To Manage Quiz
Enter Q or TP or QZ
Enter A) to Add Question or V) or Uq) to Update a Question to View all Questions or S) to search a for a Question based on topic
-|-----|
| You can always Enter (M) to return to main menu or (E) to exit |
-|-----|

You can add new questions by first choosing the type of Question
Enter (MCQ) for MCQ questions or (O) for other Question types
Choose Question topic by entering:
( 1 ) for - Java 'NB' Status -> Active
( 2 ) for - Python 'NB' Status -> Active
( 3 ) for - HTML 'NB' Status -> Active
( 19 ) for - Vadrma 'NB' Status -> Active
Enter Question difficulty level between 1 to 3
Enter a Question:
Enter an Answer for Question:
Question was added Successfully
Do you wish to add another Question?
Enter Y or N
```

```
Run: Main x
"C:\Program Files\Java\jdk1.8.0_31\bin\java.exe" ...
-|-----|
| EPITA JAVA QUIZ By VADRAMA NDISANG NGYIBI! |
-|-----|

What will you like to do?
T) Manage Quiz OR S) Take a Quiz
Enter T or S
Enter your Admin Code to confirm your Status
Authenticated
What will you like to do?
Q) To Manage Questions OR TP) To Manage Topics OR QZ) To Manage Quiz
Enter Q or TP or QZ
```

Now Enter “Q” to manage Questions.

You should now see. A new set of instructions show up. Follow them till you arrive at the level to enter your question. Enter your question and wait for the next instructions.

```
Run: Main x
What will you like to do?
T) Manage Quiz OR S) Take a Quiz
Enter T or S
T
Enter your Admin Code to confirm your Status
604
Authenticated
What will you like to do?
Q) To Manage Questions OR TP) To Manage Topics OR QZ) To Manage Quiz
Enter Q or TP or QZ
Q
Enter A) to Add Question or V) or Uq) to Update a Question to View all Questions or S) to search a for a Question based on topic
A
-|#####|
| You can always Enter (M) to return to main menu or (E) to exit |
-|#####|

You can add new questions by first choosing the type of Question

Enter (MCQ) for MCQ questions or (O) for other Question types
MCQ
Choose Question topic by entering:
( 1 ) for - Java *NB* Status -> Active
( 2 ) for - Python *NB* Status -> Active
( 3 ) for - HTML *NB* Status -> Active
( 19 ) for - Vadrama *NB* Status -> Active
( 20 ) for - C++ *NB* Status -> Active
20
Enter Question difficulty level between 1 to 3
2
Enter a Question:
Is Java A compiled or scriptin language?
```

```
Run: Main x
( 2 ) for - Python *NB* Status -> Active
( 3 ) for - HTML *NB* Status -> Active
( 19 ) for - Vadrama *NB* Status -> Active
( 20 ) for - C++ *NB* Status -> Active
20
Enter Question difficulty level between 1 to 3
2
Enter a Question:
Is Java A compiled or scriptin language?

Enter the first possible answer
No
Enter the second possible answer
Yes
Enter the third possible answer
Compiled
Enter the fourth possible answer
None of them

Which is the correct answer?

Enter
A for - No
OR
B for - Yes
OR
C for - Compiled
OR
D for - None of them
C
The Question was added Successfully
Do you wish to add another Question?
Enter Y or N
|
```

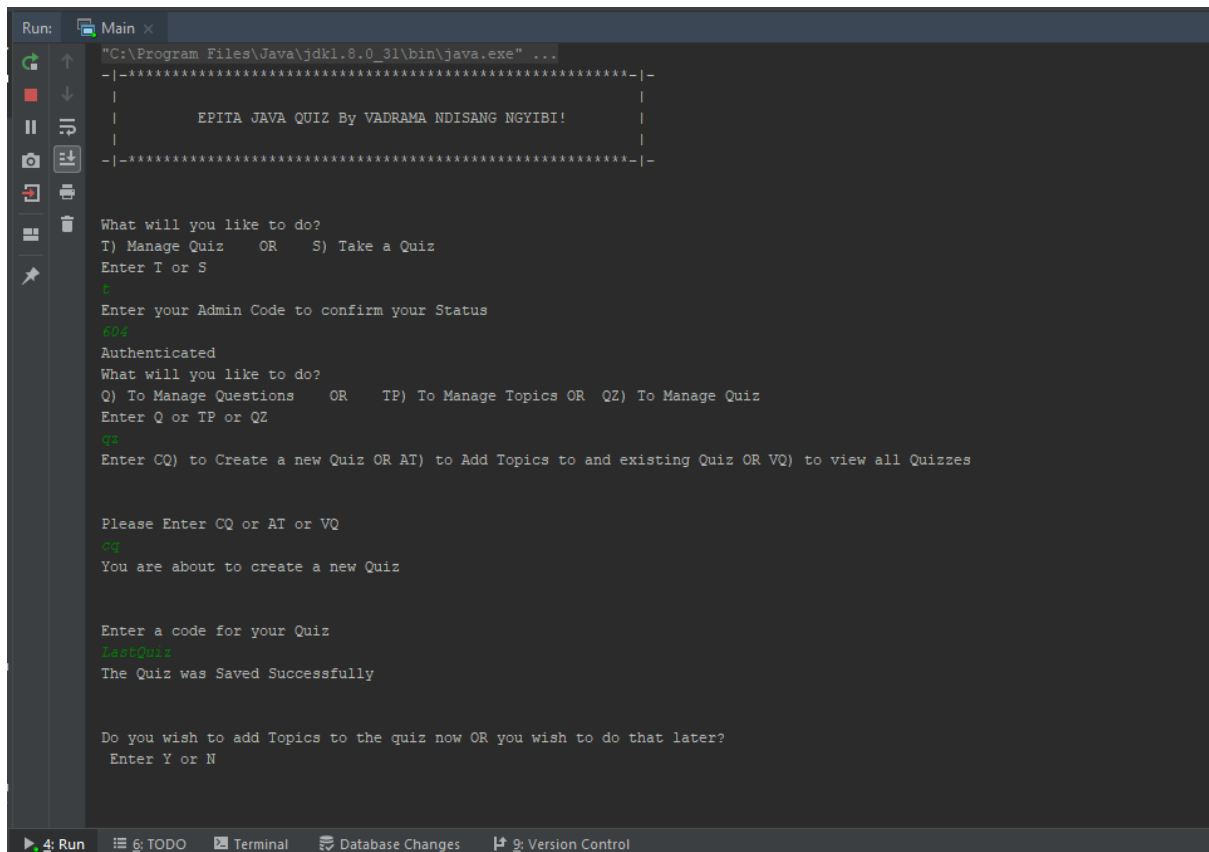
Enter the four possible answers and finally choose the right one.

Your Question Should be saved to the DB.

## II.2 Add A Quiz

To add A quiz, Follow the screens Below.





The screenshot shows a Java application running in an IDE terminal window. The application is titled "EPITA JAVA QUIZ By VADRAMA NDISANG NGYIBI!". It prompts the user to enter a choice between "T) Manage Quiz" and "S) Take a Quiz". The user enters "S", and the application prompts for an "Admin Code". The user enters "1234", and the application displays "Authenticated". It then prompts for a choice between "Q) To Manage Questions", "TP) To Manage Topics", and "QZ) To Manage Quiz". The user enters "Q", and the application prompts for a choice between "CQ) to Create a new Quiz", "AT) to Add Topics to and existing Quiz", and "VQ) to view all Quizzes". The user enters "CQ", and the application displays "You are about to create a new Quiz". It then prompts for a "code for your Quiz". The user enters "LastQuiz", and the application displays "The Quiz was Saved Successfully". Finally, it prompts for a choice between "Y" (Yes) and "N" (No) regarding adding topics to the quiz.

```
Run: Main x
"C:\Program Files\Java\jdk1.8.0_31\bin\java.exe" ...
-|-----|
|
|          EPITA JAVA QUIZ By VADRAMA NDISANG NGYIBI!          |
|
|-----|
What will you like to do?
T) Manage Quiz    OR    S) Take a Quiz
Enter T or S
S
Enter your Admin Code to confirm your Status
1234
Authenticated
What will you like to do?
Q) To Manage Questions    OR    TP) To Manage Topics OR    QZ) To Manage Quiz
Enter Q or TP or QZ
Q
Enter CQ) to Create a new Quiz OR AT) to Add Topics to and existing Quiz OR VQ) to view all Quizzes

Please Enter CQ or AT or VQ
CQ
You are about to create a new Quiz

Enter a code for your Quiz
LastQuiz
The Quiz was Saved Successfully

Do you wish to add Topics to the quiz now OR you wish to do that later?
Enter Y or N
```

## II.3 Add a Topic

To add a Topic, Follow the Screen below

```
Run: Main x
C:\Program Files\Java\jdk1.8.0_31\bin\java.exe ...
-|-----|
|
|          EPITA JAVA QUIZ By VADRAMA NDISANG NGYIBI!
|
|-----|
-|-----|

What will you like to do?
T) Manage Quiz   OR   S) Take a Quiz
Enter T or S
>
Enter your Admin Code to confirm your Status
>
Authenticated
What will you like to do?
Q) To Manage Questions   OR   TP) To Manage Topics OR   Q2) To Manage Quiz
Enter Q or TP or Q2
>
Enter A) to Add a Topic or V) to View all Topics or Up) to Update a Topic or S) to search for a Topic
>
Enter a new Topic
>
The topic was added Successfully

Do you wish to add another Topic?
Enter Y or N
>
Exiting...

Invalid Entry

Process finished with exit code 1
```

```
Run: Main x
>
The System generates quiz questions based on the topics and difficulties for the desired questions you choose.

You will have to choose a topic, enter a difficulty for the questions you would like to be generated.

Choose a topic from the list
Enter:
( 1 ) for - Java   *NB* Status -> Active
( 2 ) for - Python *NB* Status -> Active
( 3 ) for - HTML   *NB* Status -> Active
( 19 ) for - Vadrama *NB* Status -> Active
( 20 ) for - C++   *NB* Status -> Active
>
Enter a Question difficulty level between 1 to 3
>
The Question was added Successfully
Do you wish to add another Topic to your Quiz?
Enter Y or N
>
The System generates quiz questions based on the topics and difficulties for the desired questions you choose.

You will have to choose a topic, enter a difficulty for the questions you would like to be generated.

Choose a topic from the list
Enter:
( 1 ) for - Java   *NB* Status -> Active
( 2 ) for - Python *NB* Status -> Active
( 3 ) for - HTML   *NB* Status -> Active
( 19 ) for - Vadrama *NB* Status -> Active
( 20 ) for - C++   *NB* Status -> Active
>
Enter a Question difficulty level between 1 to 3
>
Your chosen Topic for this Quiz exists already
Do you wish to add another Topic to your Quiz?
Enter Y or N
>
```

All files are up-to-date (3 minutes ago)

```
Run: Main x
-|-*****-|-
|
|      EPITA JAVA QUIZ By VADRAMA NDISANG NGYIBI!
|
-|-*****-|-

What will you like to do?
T) Manage Quiz   OR   S) Take a Quiz
Enter T or S
S

Enter your Admin Code to confirm your Status
00
Authenticated
What will you like to do?
Q) To Manage Questions   OR   TP) To Manage Topics OR   QZ) To Manage Quiz
Enter Q or TP or QZ
QZ

Enter CQ) to Create a new Quiz OR AT) to Add Topics to and existing Quiz OR VQ) to view all Quizzes

Please Enter CQ or AT or VQ
VQ

1). Quiz Code : Vadramal01, -|- Status : Active
2). Quiz Code : Vadl02, -|- Status : Active
3). Quiz Code : LastQuiz, -|- Status : Active
-|-*****-|-
|
|      EPITA JAVA QUIZ By VADRAMA NDISANG NGYIBI!
|
-|-*****-|-

What will you like to do?
T) Manage Quiz   OR   S) Take a Quiz
Enter T or S
```

## II.4 Take a Quiz

To take a Quiz, Follow the Screen below. First register as a student by entering “S” then enter your name, if it exists in the database, you will be redirected to the quiz portal if not you will be registered automatically by the system and then redirected to the quiz portal. Once at the Quiz portal enter the Quiz code and follow the instructions to answer. You will have to answer one question at a time and the system will automatically call the next question and so on till you finish the quiz. See the screen below.

```
Run: Main x
"C:\Program Files\Java\jdk1.8.0_31\bin\java.exe" ...
-|*****|
|
|          EPITA JAVA QUIZ By VADRAMA NDISANG NGYIBI!
|
-|*****|

What will you like to do?
T) Manage Quiz   OR   S) Take a Quiz
Enter T or S
S

-|#####|
|  You can always Enter (M) to return to main menu or (E) to exit  |
-|#####|

Enter your student Number to begin.
NGYIBI VADRAMA NDISANG
You are not yet registered.

Please wait!

Registering you...

You have been registered Successfully
Please enter the Quiz code you wish to take.
Vadrama101
Quiz Code : Vadramal01
Status : Active

Quiz Started.

For MCQ Question, enter only the letter corresponding to the right answer when prompt to do so.
For Ordinary questions, enter your answer only when prompt to do so.

4: Run  6: TODO  Terminal  Database Changes  9: Version Control
```

```
Vadrama101
Quiz Code : Vadramal01
Status : Active

Quiz Started.

For MCQ Question, enter only the letter corresponding to the right answer when prompt to do so.
For Ordinary questions, enter your answer only when prompt to do so.

Tic Toc

BEGIN

1). Which variables are created when an object is created with the use of the keyword 'new' and destroyed when the object is destroyed?

A). Local variables
B). Instance variables
C). Class Variables
D). Static variables

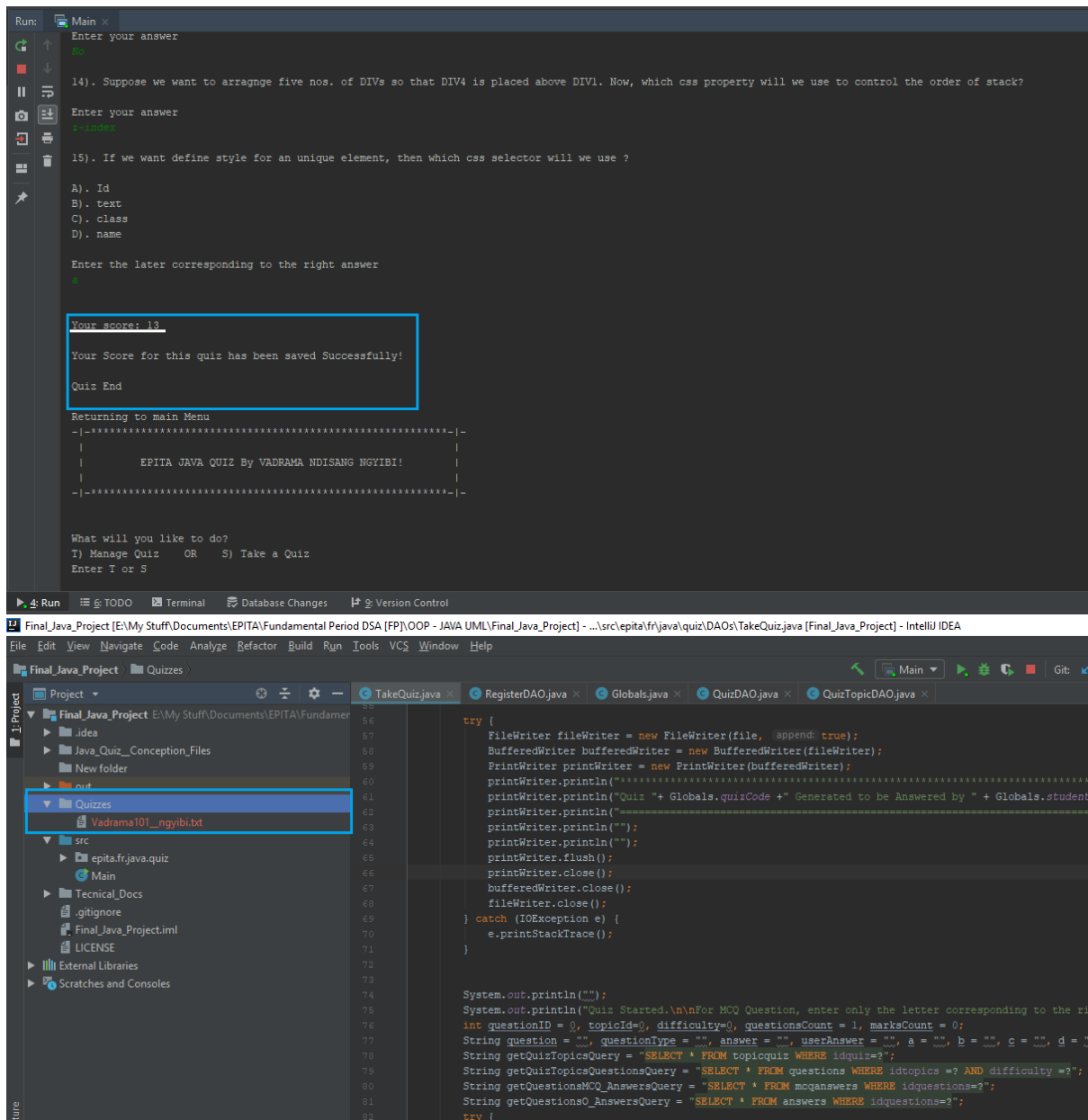
Enter the later corresponding to the right answer

4: Run  6: TODO  Terminal  Database Changes  9: Version Control
```

```
Run: Main x
1). Which variables are created when an object is created with the use of the keyword 'new' and destroyed when the object is destroyed?
A). Local variables
B). Instance variables
C). Class Variables
D). Static variables
Enter the later corresponding to the right answer
b
2). What is byte code in Java?
A). Code generated by a Java compiler
B). Code generated by a Java Virtual Machine
C). Name of Java source code file
D). Block of code written inside a class
Enter the later corresponding to the right answer
a
A). Java SE
B). Java EE
C). Java 2E
D). None of the above
Enter the later corresponding to the right answer
a
3). 'Who is known as father of Java Programming Language?
A). James Gosling
B). M. P Java
C). Charel Babbage
D). Blais Pascal
Enter the later corresponding to the right answer
```

```
Run: Main x
10). Does Python make use of decorators?
Answer True or False
Enter your answer
True
Enter your answer
True
11). What is the output of this expression, 3*1**3?
Enter your answer
3
12). What is the answer to this expression, 22 % 3 is?
Enter your answer
1
13). Can we align a Block element by setting the left and right margins ? Answer Yes or No.
Enter your answer
No
14). Suppose we want to arragnge five nos. of DIVs so that DIV4 is placed above DIV1. Now, which css property will we use to control the order of stack?
Enter your answer
z-index
15). If we want Define style for an unique element, then which css selector will we use ?
A). Id
B). text
C). class
D). name
Enter the later corresponding to the right answer
```

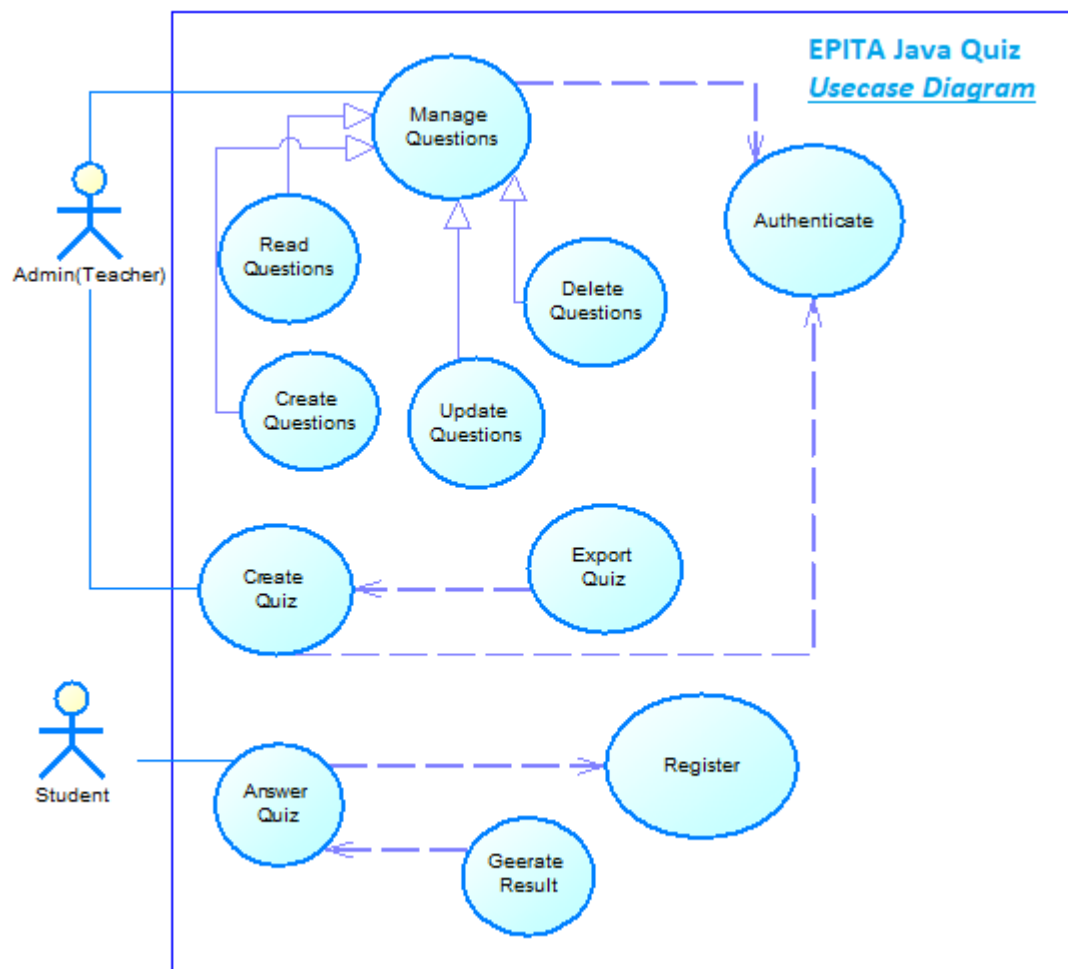
Once you finish the Quiz, the system automatically generates a text file wit the Quiz code and your name as quizcode\_\_yourName.txt The text file contains all the questions you answered and the score you earned for the Quiz. This file can be found in the folder ***“Final\_Java\_Project\Quizzes”***



```
Vadrama101_ngyibi.txt x
1 *****
2 Quiz Vadrama101 Generated to be Answered by ngyibi
3 =====
4
5
6 1). Which variables are created when an object is created with the use of the keyword 'new' and destroyed when the object is de
7
8 A). Local variables
9 B). Instance variables
10 C). Class Variables
11 D). Static variables
12
13
14 2). What is byte code in Java?
15
16 A). Code generated by a Java compiler
17 B). Code generated by a Java Virtual Machine
18 C). Name of Java source code file
19 D). Block of code written inside a class
20
21
22 A). Java SE
23 B). Java EE
24 C). Java 2E
25 D). None of the above
26
27
28 3). 'Who is known as father of Java Programming Language?
29
30 A). James Gosling
31 B). M. P Java
32 C). Charel Babbage
33 D). Blais Pascal
34
35
36 4). Which of these is returned by operator '&' ?
```

```
Vadrama101_ngyibi.txt x
60
61
62 8). Which of the following are not Java keywords ?
63
64 A). double
65 B). switch
66
67 C). then
68 D). instanceof
69
70
71 9). What provides runtime environment for java byte code to be executed?
72
73 10). Does Python make use of decorators?
74 Answer True or False
75
76 11). What is the output of this expression, 3*1**3?
77
78 12). What is the answer to this expression, 22 % 3 is?
79
80 13). Can we align a Block element by setting the left and right margins ? Answer Yes or No.
81
82 14). Suppose we want to arragnge five nos. of DIVs so that DIV4 is placed above DIV1. Now, which css property will we use to d
83
84 15). If we want define style for an unique element, then which css selector will we use ?
85
86 A). Id
87 B). text
88 C). class
89 D). name
90
91
92 *****
93 Quiz Vadrama101, Was Generated and Answered by ngyibi, Scored: 13/15
94 =====
95
96
```

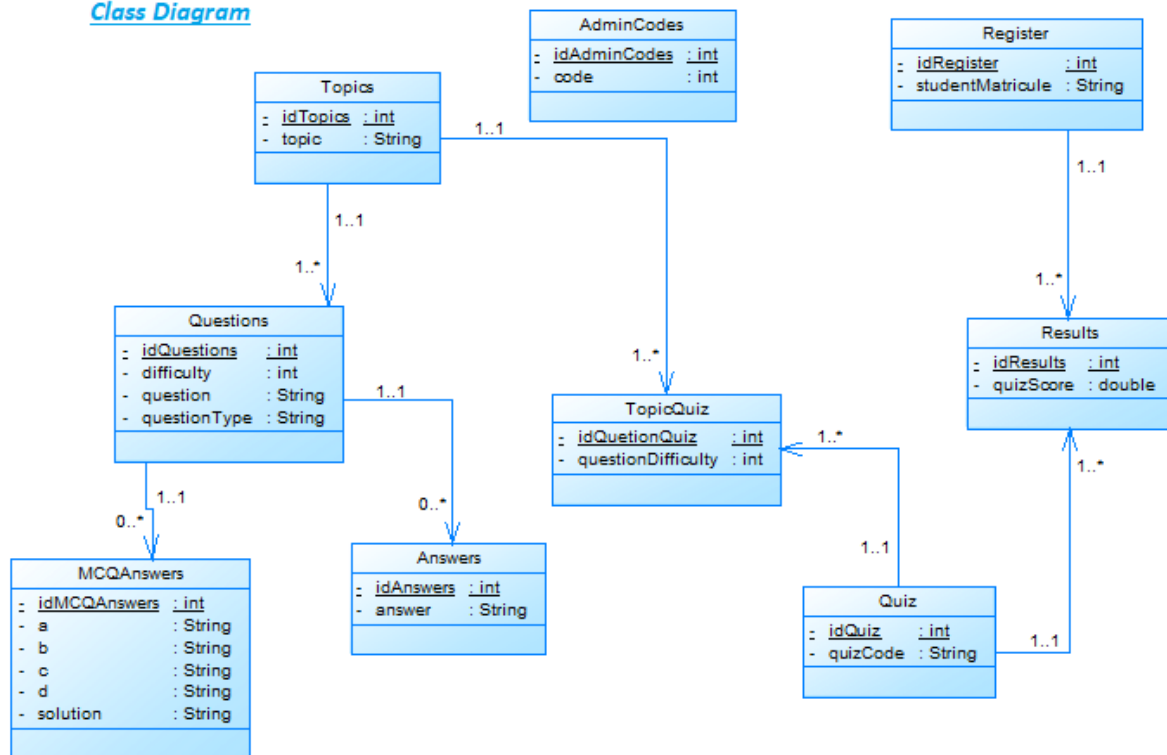
## II. Project Conception Files and UML Diagrams



Use Case Diagram

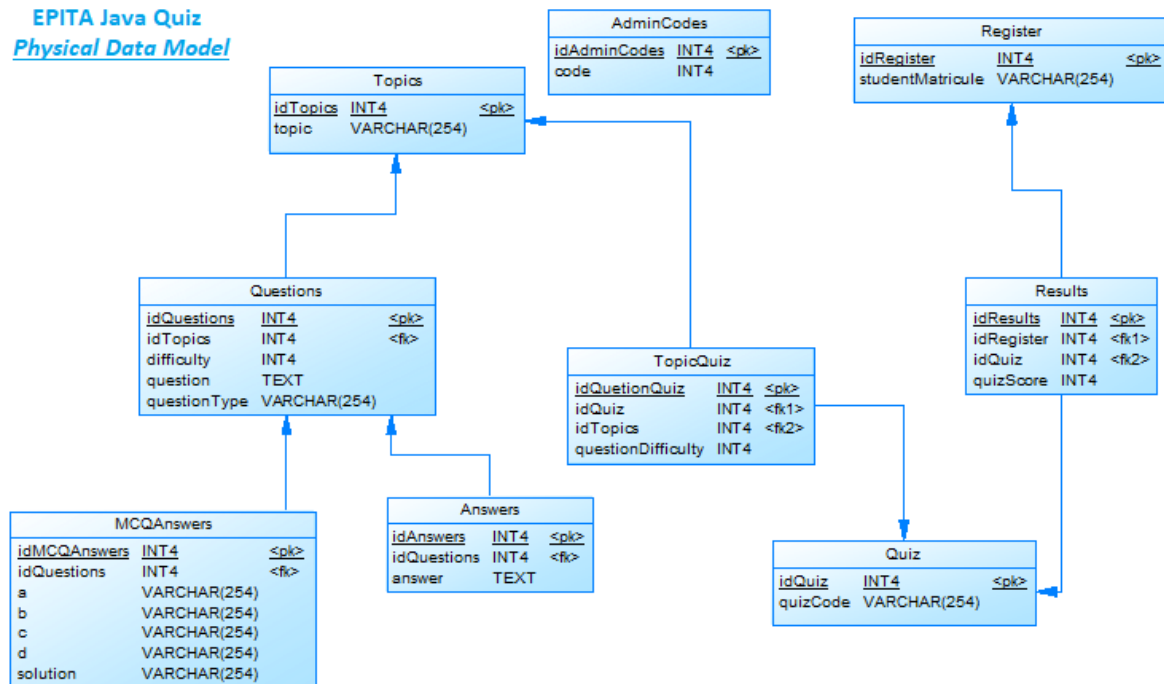


## EPITA Java Quiz Class Diagram



## Class Diagram

## EPITA Java Quiz Physical Data Model



## Physical Data Model Diagram

