

# FUNDAMENTAL JAVA PROJECT : QUIZ MANAGER

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# **TECHNICAL GUIDE**

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**ROOT/SRC:** 

#### Directory fr.epita.quiz

It contains Three packages inside it which are used for various purposes.

- 1.datamodel
- 2.launcher
- 3.services

#### 1.datamodel package

This is a preliminary package which contains all the classes which are going to be used later in the service and launcher classes.

Available Classes:

#### MCQQuestion

It contains various variable declaration statement, constructors and getter setter for performing operations [CRUD] to a MCQ Question.

```
private String qId;
private String qText;
private String qTopic;
private String qDifficulty;
private String qCorrectAnswer;
private String qWrongAnswer1;
private String qWrongAnswer2;
private String qWrongAnswer3;
```

#### MCQQuiz

It extends the class MCQQuestion and also contains an ArrayList options which is used to get the options of the MCQ while operating on quiz.

```
private ArrayList<Options> options;
```

# • OpenQuestion

It contains various variable declaration statement, constructors and getter setter for performing operations [CRUD] to a Open Question.

```
private String qId;
private String qText;
private String qTopic;
private String qDifficulty;
private String qTip;
private String qCorrectAnswer;
```

OpenQuiz

It extends the class OpenQuestion and used while operating on quiz.

Options

This class extends the MCQQuestion Class. It has is Correct Boolean which is used to allocate True or False to the Options in MCQQuiz

```
Boolean isCorrect=null;
```

Student

It is the class for student and contains details and parameters of student.

```
private String name;
private String id;
private String password;
```

#### 2.launcher package

The Launcher package is the host for main class. Which is the driver for all available services in the project. It calls every service available.

It has a main method which has multiple switch cases for Displaying menu and getting user responses.

#### 3.services package

This package homes the available services of the project.

Available Classes:

#### 1.CreateQuiz

It has four major methods inside it for various purposes.

METHOD	USE
createOpenQuiz	This is used to create a Open Quiz based on Topic
createMCQQuiz	This is used to create a MCQ Quiz based on Topic
createMCQQuiz_difficult	This is used to create a Open Quiz based on Difficulty

createOpenQuiz_difficult	This is used to create a Open Quiz based on
	Difficulty

#### 2. Export Student Result

It has four major methods inside it for various purposes. All serve the main purpose of exporting quiz attended by Student.

METHOD	USE
extractOpen	This is used to extract a Open Quiz based on Topic
extractMCQ	This is used to extract a MCQ Quiz based on Topic
extractOpenD	This is used to extract a Open Quiz based on Difficulty
extractMCQD	This is used to extract a MCQ Quiz based on Difficulty

#### 3.MCQQuestionDAO

This method is a CRUD Driver method. It has Create, Read, Update, Delete method for MCQ Question.

#### 4.OpenQuestionDAO

This method is a CRUD Driver method. It has Create, Read, Update, Delete method for Open Question.

#### 5.StudentDAO

This method is a CRUD Driver method. It has Create, Read, Update, Delete method for a student.

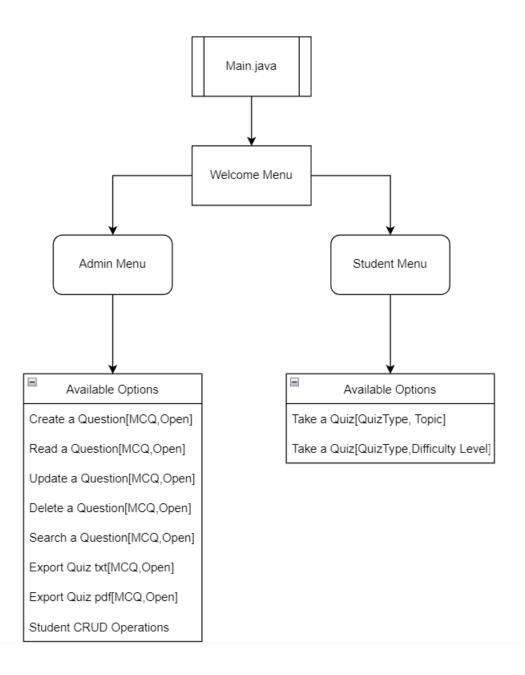
#### 6.StudentLogin

This service class is a Login Driver which is used to authenticate student by getting Credentials and verifying it in the DB.

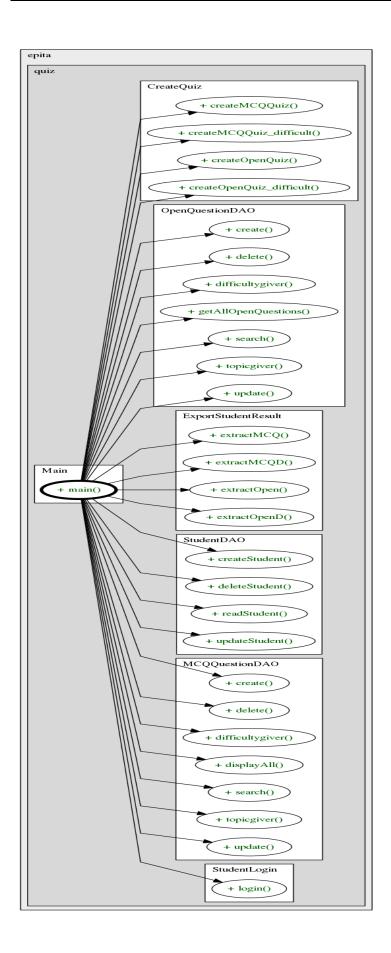
### **Test Package:**

It contains a few test classes for the service classes available in-service package.

# **OVERALL FLOWCHART**



# PROJECT CALL DIAGRAM REPRESENTATION



	QUENCE DIAGR				
	equence File is in F	Project Folder na	med Working	Sequence	
Please have a lo	ook.				