



Fundamental Java Project Quiz Manager

Professor:

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Github link for project:

Introduction

The objective of the project is to provide professor the platform to create quizzes and Student can attempt the quiz and get the score.

Professor will have a login ID and login Password and get authenticated every time he logs in. For now we have fixed it (ID="ADMIN" and Password="PASS").

Professor can add multiple questions to multiple quizzes. Questions can be multiple choice questions or text answers type questions along with the respective topic and its correct answer. Apart from this professor can provide the difficulty level of the questions. Professor is not obliged to add all the questions at the time of creation of quiz, questions can be added at any time.

Student can login by providing his name and the quiz name he/she wants to attempt. This application also allows the student to choose difficulty level they are comfortable with, which is provided by the professor at the time of question creation.

Questions would be displayed one by one to the student and student needs to answer the questions to go to the next questions. Student will be allotted 1 mark for every correct answer and at the end will get total marks earned by him.

This application also allows the professor to check how many and which student has attempted the quiz and what marks they have got.

By using the fundamental concepts of java, we have come up with a console application which has database functionality.

Development Environment:

Platform Used	Windows 10
Language	Java, MySQL
IDE	Eclipse
Database	H2

The different folders in project file:

src: This source folder consists of all the packages

config: In this folder we have database.properties file.

lib: This folder has jar file for connecting database.

Packages, Classes and Methods:

fr.epita.quiz.connections: In this package we have dataConnect.java class file to connect and do operations on database and in this file we have methods for inserting and fetching quiz, questions, options and correct option.

fr.epita.quiz.launcher: This package has a launcher class, inside this class there is a main method, which starts the execution.

fr.epita.quiz.process: In this package we have Answer.java, Questions.java, Quiz.java and StudentProcess.java files. Which controls the functionality of the application.

fr.epita.quiz.serv: This package consists LoadConfig.java which is responsible for loading the configurations from database.properties file.

References:

- <https://thomas-broussard.fr/work/java/courses/project/fundamental.xhtml>
- <https://github.com/thomasbroussard/2019s1fund-group2>