



Advanced Java Project Quiz Manager

Professor:

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Submitted By:

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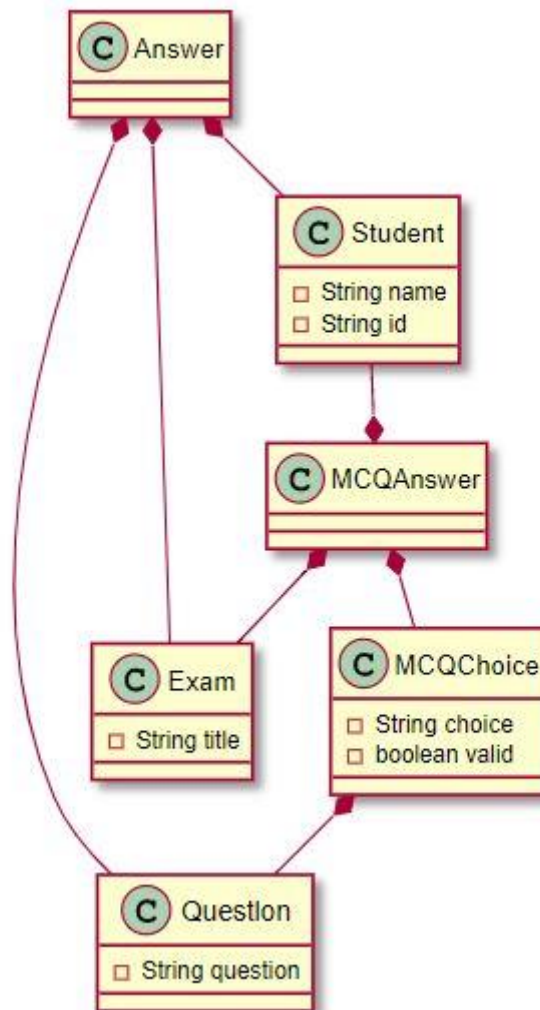
Project Github link:

<https://github.com/shashikiran330/AdvancedJavaQuizManager>

Introduction:

The goal of this document is to explain the Quiz Manager Web Application features, objectives and limitation. The aim of the project is to understand the Advanced concepts of Java and develop a program (API oriented, Web-based) that helps in dealing with quiz assessments.

Application flow diagram:



The usual problem while preparing an evaluation are:

- Constitute an appropriate evaluation regarding the required level.
- Reuse former questions.
- Organize sample evaluations.
- Correct automatically the MCQ's.

The implementation is done by using Java, Spring Framework, JPA, JAXB, XML, Tomcat server, JSP, CSS.

The quiz operates in two Modes:

1. Professor Mode
2. Student Mode

Professor Mode:

In this mode, the user can enter the application as a professor and creates different quiz and adds multiple choice questions to each quiz along with the correct answer.

Student Mode:

The user enters the application as a student by entering the login credentials. The quiz begins and the questions with MCQ choices will be displayed. At the end of the quiz total score of the student is displayed.

Development Environment:

Platform Used	Windows 10
Language	Java
IDE	Eclipse

Folders in our project : src/main/java: Contains all packages.

The different packages, classes and methods used in the application:

Packages	Classes	Methods
fr.epita.javaquiz.dao	JavaQuizDao	Persist() Getquestionnaire() Getcorrectanswer()
fr.epita.javaquiz.model	Questions Questionnaire Choices	getqId(), setqId(), getQuestion(), setQuestion(), getAnswer1(), setAnswer1(),getAnswer2(), setAnswer2(),getAnswer3(), setAnswer3(),getAnswer4(), setAnswer4() getCorrect(), setCorrect(),getChoiceList(), setChoiceList(), getCorrectAnswer(),setCorrectAns wer(), getId(), getIsCorrect(),setId(), setText(), getText(), setIsCorrect()
fr.epita.javaquiz.controller	JavaQuizContr oller	addQuestions(), load(), finishQuiz(), getQuestionsData(), getQuestion(), getTagValue()

SCREENSHOTS:

Student Login Page



LOGIN PAGE

Username:

Password:

Student Takes Multiple Choice Quiz

http://localhost:8080/JavaQuizApplication/questions.html

JAVA QUIZ

- Which one of these lists contains only Java programming language keywords?
 - ☐ class, if, void, long, Int, continue.
 - ☐ goto, instanceof, native, finally, default, throws.
 - ☐ ry, virtual, throw, final, volatile, transient.
 - ☐ None of the above.
- Which is a reserved word in the Java programming language?
 - ☐ method.
 - ☐ native.
 - ☐ subclasses.
 - ☐ array.
- You want subclasses in any package to have access to members of a superclass. Which is the most restrictive access that accomplishes this objective?
 - ☐ public.
 - ☐ private.
 - ☐ protected.
 - ☐ transient.
- Which of the following would compile without error?
 - ☐ int a = Math.abs(-5);.
 - ☐ int b = Math.abs(5.0);.
 - ☐ int c = Math.abs(5.5F);.
 - ☐ int d = Math.abs(5L);.
- Which is a valid keyword in java?
 - ☐ interface.

After Clicking Submitting Button Student gets the Result

http://localhost:8080/JavaQuizApplication/questions.html

- ☐ interface.
- ☐ string.
- ☐ float.
- ☐ unsigned.

- which operator is considered to be with highest precedence?
 - ☐ () , []
 - ☐ =
 - ☐ ?:
 - ☐ %
- Under what conditions is an object's finalize() method invoked by the garbage collector?
 - ☐ When it detects that the object has become unreachable.
 - ☐ As soon as object is set as null
 - ☐ At fixed interval m it checks for null value.
 - ☐ None of the above.
- Static binding uses which information for binding?
 - ☐ type.
 - ☐ object.
 - ☐ Both of the above.
 - ☐ None of the above.

Your Total Score is: 2

References:

- <https://thomas-broussard.fr/work/java/courses/project/advanced.shtml>
- <https://github.com/thomasbroussard/2019s2-adv>