

User Guide:

A JAVA Project Report (Quiz Manager Web Application)

Submitted by:

Shiyamaladevi PACHAIAPPAN

(patchaiappanshiyamaladevi@gmail.com)





Introduction

This report will give overall information and technical specifications, that how the quiz manager is established, efforts and implementations involved.

Quiz manager application in Java using Eclipse and H2 database can be quite a good experience which requires understanding of libraries, and all the aspects of Java. By implementing all the procedures and methods we have used almost 8 classes to establish great output for the end user, and we have used brainstorming to solve the complete code and efforts are made to get an output for a code by gathering a list of procedures and UML diagrams.

Involved many features and concepts in this context to develop the code and made code run on any computer architecture by making Java Architectural neutral.

Overview

This report includes all the basic operations and steps which are involved in the java quiz manager web application project development.





This project has been greatly influenced us to learn the more concepts of **JAVA**.

What we learned is:

Java is a general-purpose, concurrent, class-based, objectoriented computer programming language that is specifically designed to have as few implementation dependencies as possible. It is intended to let application developers "write once, run anywhere" (WORA), meaning that code that runs on one platform does not need to be recompiled to run on another.

Objective

The main goal of this project is to develop quiz manager web application using Java which can automatically connect to a database and store information in the database.

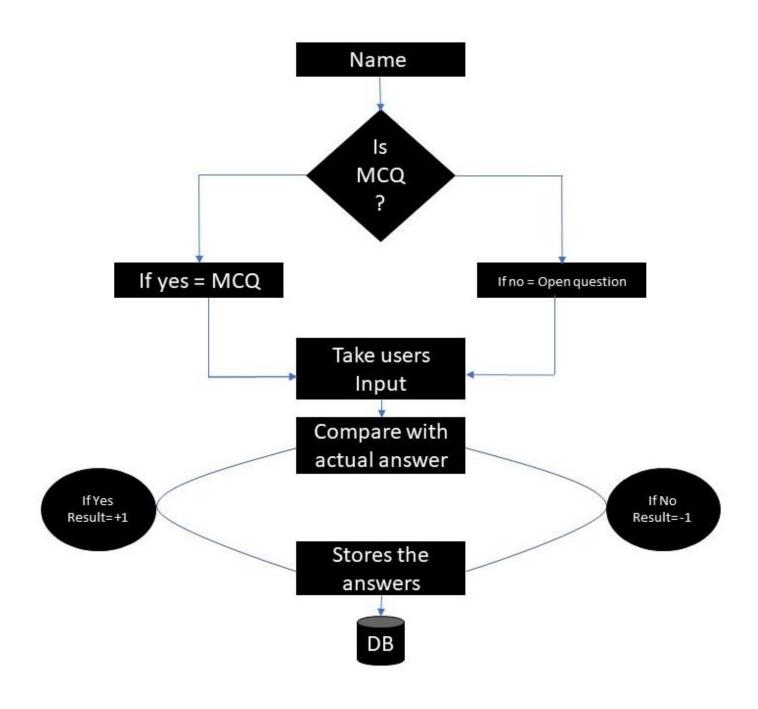
The main process of the Quiz manager is:

- 1. Input Name
- 2. Display the ono-by-one Questions
- 3. User submits the quiz
- 4. User is able to see the score in web page
- 5. Answers will be stored into the data base.





Flow Diagram







DAO, Operations and Methods

Authenticate: User authentication is done and takes the Name

as the Username then it connects the database and

execute the Questions.

Display: This process is used to display all the questions

one-by-one from the database.

Check: Console will check whether the question is MCQ

or Open Question.

Storage: Console will take the users input and answers will

be stored in the database.

TECHNICAL SPECIFICATIONS:

TESTING:

To satisfy the requirements and check whether every build services in the application are executed as expected, one of the earliest, testing efforts performed on the code is Unit Testing. To quickly test any new code or changes to existing code without the overhead and additional time involved in tasks such as server configuration, services setup and application deployment, we integrated the popular testing

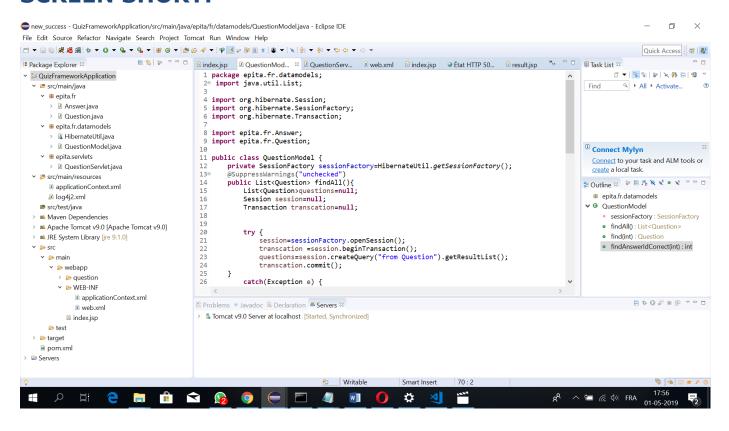




framework JUnit Framework to execute the unit test on every small code module. Our objectives are in writing and executing the tests

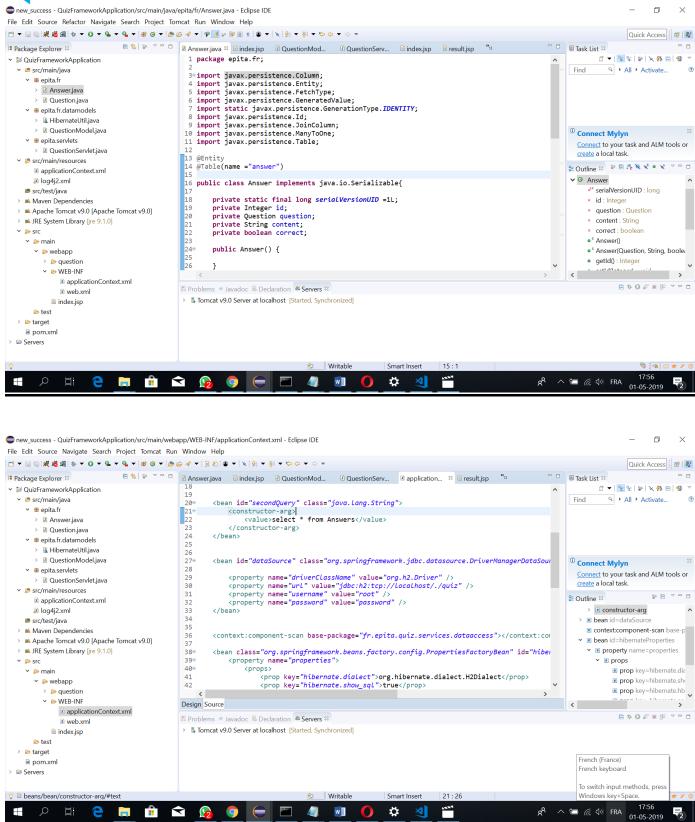
- We want to code and run the tests without leaving the IDE (Eclipse).
- There should be no special deployment of the code required We should be able to exploit other code analysis tools such as Metrics and find bugs right from within the IDE so we can find any bugs right away and fix those issues.

SCREEN SHORT:



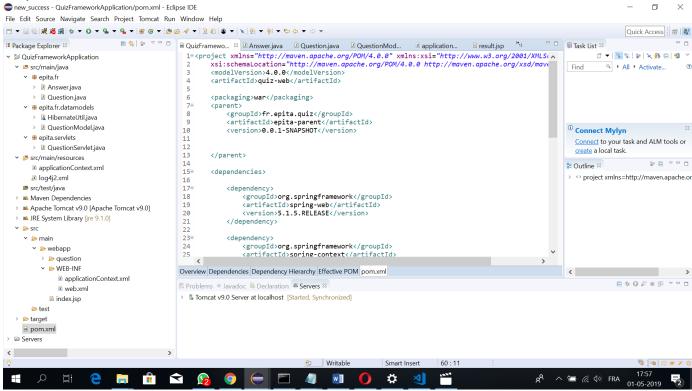










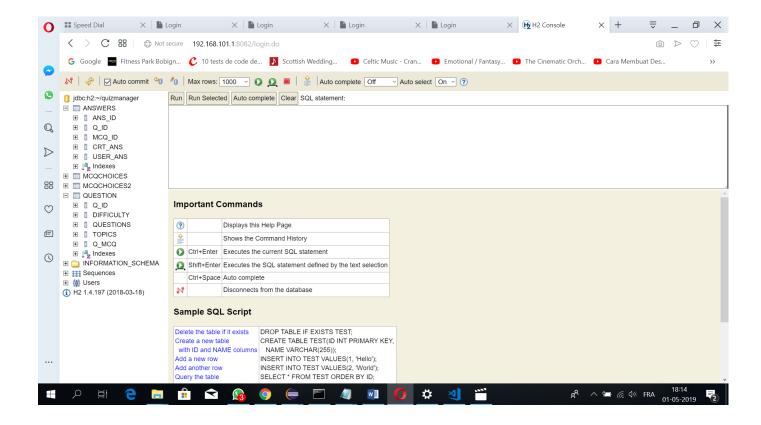


OUTPUT:

```
Quiz
   1. Question 1
        a. O Answer 1.2
        b. O Answer 1.1
   2. Question 2
        a. O Answer 2.1
        b. O Answer 2.3
        c. O Answer 2.2
   3. Question 3
        a. O Answer 3.1
        b. O Answer 3.2
   4. Question 4
        a. O Answer 4.4
        b. O Answer 4.1
        c. O Answer 4.3
        d. O Answer 4.2
Submit
```







ANGULAR:

```
question-form.component.ts - angular2 - Visual Studio Code
    File Edit Selection View Go Debug Terminal Help
                                                 TS question-form.component.ts × # question-form.component.css
                                                                                                                                                          ţ1
                                                                                                                        TS question.service.ts
                                                          import { Component, OnInit } from '@angular/core';
import { Question } from 'src/app/datamodel/question.model';
import { QuestionService } from 'src/app/services/question.service';
       OPEN EDITORS 1 UNSAVED
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Q
                                                         @Component({
    selector: 'app-question-form',
69

✓ src

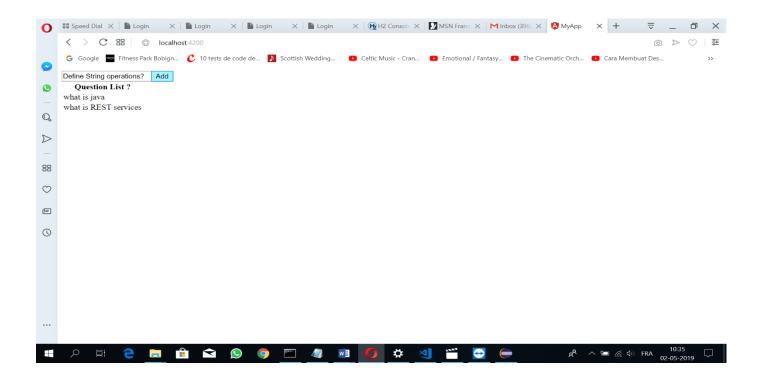
                                                            styleUrls: ['./question-form.component.css']

▲ components

                                                          export class QuestionFormComponent implements OnInit {
# question-form.compone... U
               TS question-form.compone... U
                                                            constructor(private questionService : QuestionService) { }
              ▶ question-list
             ▶ datamodel
                                                           ngOnInit() {
                                                  PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
                                                                                                                                                    Ш
                                                                                                                                                         â
             TS app-routing.module.ts
                                                  6 unchanged chunks
             # app.component.css
                                                            Compiled successfully.
                                                  i [wdm]: Compiling...
                                                  Date: 2019-05-02T08:34:17.981Z - Hash: a222517550997a0fe5d6 - Time: 338ms
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             TS app.module.ts
办
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```







Configuration

Username : Admin(Case sensitive)

Password : Admin(Case Sensitive)

Database : H2

Drivers : H2 Embedded Driver





Development Environment

PLATFORM USED: Windows 7

LANGUAGE USED: Core Java

(Spring framework , Hibernate ,JSP)

IDE : Eclipse

DATABASE : H2

SERVER : Tomcat v9.0

Reference

http://thomas-broussard.fr/

