**Online Quiz Portal Using Servlets, JSP, and JDBC**

**Writeup**

**Step1:**

Open Eclipse--Go to File menu. Choose New->Dynamic Web Project, Enter the project name as OnlineQuizPortal.

Click on Next, enter nothing in the next screen and click on Next, Check the checkbox Generate web.xml deployment descriptor and click on Finish.

**Step2:** Add the jar files for Hibernate and its dependencies.

**Step3:** Create a DBMain class to establish a connection with our database.

**Step4:**

Expand OnlineQuizPortal ->Java Resources, Right click on src and choose New->Package.

In Package Name, enter com.example and in Name enter Question and another two classes Quiz, User and click on Finish.

**Step5:** Create another classes in package com.example and class QuestionsOperations, QuizOperations, UserMain.

**Step6:** Add servlet api jar and jsp api jar in build path and mysql connector jar in WEB-INF🡪Lib.

**Step7:** Expand the project OnlineQuizPortal, Expand WebContent, Right click on WebContent, Choose New->jsp File, Enter the filename as index.jsp and click on Finish.

**Step8:** Create other jsp files AddQuestion.jsp, AddUser.jsp, QuestionList.jsp, User.jsp, Question.jsp, login.jsp, EditQuestion.jsp, CreateQuiz.jsp, admin.jsp, adminPage.jsp, EditUser.jsp, StartQuiz.jsp.

**Step9:** Configuring web.xml file

**Step10:** Run the project from index.jsp file.

**Step11:** In the welcome page there is admin login and user login.

**Step12:** In admin login**,** admin can view and edit user details, admin can view the list of quiz and questions and can edit the quiz and quiz questions.

**Step13:** In user login, the new users can register and login to the online quiz portal. In the portal user take quiz and the scores are generated.

**Step14:** And logout.