

Online Quiz Portal

Writeup

1. The home page has three options
 - New User Registration
 - User Login
 - Admin Login
2. Both User and Admin Logins are password protected.
3. Options to change password are provided.
4. For admin, a default password is set in the database initially. The admin can change the password on his/her wish.
5. Email ID of the users is used as the Primary Key and Checks are provided to ensure there is no duplicate entries.
6. The Admin Dashboard has facilities to Create/Edit/Delete Categories, Quizzes, Questions and even add/edit/delete User details based on requirement.
7. Admin can view the Leaderboard of all the quizzes that has been conducted.
8. The User Dashboard contains a list of available quizzes along with the categories present in it.
9. Once the user completes the quiz, the score is displayed and correct answers and answers selected by user are displayed.
10. The user can view the Leaderboard of the current quiz on completion.
11. The user Dashboard also has a Leaderboard option, in which category and quiz are selected to display a particular quiz Leaderboard.
12. Hibernate and Hibernate Query Language is used in this application.
13. A total of six POJO's are created.

- User
- Admin
- Category
- Quiz
- Question
- Score

14. The relationships are as follows.

- Category – Quiz : One to Many
- Quiz – Question: One to Many

15. DAOs corresponding to the POJOs are also created to perform the CRUD operations.

16. Hibernate annotations are used and tables are dynamically created and stored in the database.

17. JSPs and Servlets are used to perform the operations.

18. Options to go to the Dashboard or logout from current Page is provided (except in case of attending a quiz, selecting categories in between an operation).

19. HttpSession object is used. It stores the email ID and once the user/admin logs out, the object is invalidated.

20. Various try-catch and if-else statements are used to handle the undesirable behaviours.