

**QuizContestApp Report**  
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## Subject Description

### Overview

Quiz Manager System is the task of evaluation application for student and also a tool for School Teacher, which includes taking a test, and inserting a question paper, it also has other options like feedback, login actions and logout.

**Maven** is a "build management tool", this maven tool has Maven Dependencies that comes with Maven it has all kinds of useful jar files that can be used in project, and this tool is very useful for developing this application. Which allows us to know how **.java** files get compiled to **.class**, packaged into **.jar** (or **.war** or **.ear**) files, (pre/post) processed with tools, managing CLASSPATH, and all others sorts of tasks that are required to build project.

For this project I have developed it as a Maven project

**Hibernate** is a powerful framework it is an object-relational mapping (ORM) library for the Java language; it always follows given when Then Methodology, it has a framework for mapping an object-oriented domain model to a traditional relational database.

## Subject Analysis

### Main Features

**Authentication:** The application user can gain access to the application when the correct credentials are given. User can be shown user defined exceptions when any wrong User name or password is given in the UI. User can register himself if the access is not given.

**Note:** Validations are done, and we can give any password or User ID to login

< since I have created any Database >

**Select a File to upload:** User can upload a text file as question paper in to the system which can fetched into the database

**Note:** here for the moment I have been saving the material in Local File System for dummy process (ex: C:\Dhana\Topics.txt) where I give this file as question paper.

**Subjects:** User can choose the only given Course but not others

**Upload:** User can upload the file that is selected into that particular course

### Application Feasibility

This application has a good looking design which are developed using CSS and bootstrap which makes my **QuizContestApp** application look and feel

application. This application has some validations where user has some restrictions like password cannot be same when compared to other users; password should be 3-30 character. And the Type to be checked

## **Data Structure**

### **QuizContestApp:**

#### **a. Configuration:**

- i. This module is used to configure the application which is required for the first Initialization.

- ii. This also is used for the Configuration of Hibernate

#### **b. Servlets:**

- i. Servlets are used to handle all control all DAO and User related activities it's acting like a controller.

#### **c. JSP:**

- i. JSP is java servlet page which is other form web forms. Which act as a view for the user to view. Here the form is used to build custom tags and perform java operations.

## **Expected Results**

The User can experience great view of the UI, look and feel is affordable to see. The user can be able to create a new user account when the user is not having any login credentials. And User can be able to authenticate easy.

User can be able to upload the Question paper successfully,

User can be logged out

User Can view the feedbacks

### **Scope and Limitations**

The project is mainly focused on the server side aspect of the website, even though the project uses bootstrap and css to achieve a quick and nice front end UI

Dependency Injection.

## **Configuration instructions**

### **Maven:**

1. Open Eclipse and go to: Help / Eclipse Marketplace.
2. Insert on search: "Maven" and look for "Maven Integration for Eclipse WTP" and install it.
3. If the installation was successfully made in Window/Preferences, the Maven option will be visible.
4. Download the last version from here:
  - a. <http://maven.apache.org/download.html> and put it on a folder in C partition (or other partitions) - just **remember** that the path to the

downloaded maven shouldn't contain spaces (you will have errors) - for example, path is: "c:\Apache\_Maven\apache-maven-3.0.4...".

5. After downloading it, go in Eclipse -> Window -> Preferences -> Maven (from left menu and expand it) -> Installations -> and add path to the downloaded maven.

6. To create the project: New -> Other -> Maven -> Maven Project -> and search on filter the archetype you would like to use (for example: use maven-archetype-webapp for web application etc.). Click Next and put project details: **Group Id, Artifact Id, Version** etc.

7. After creating the project, the most important file is **pom.xml**. There add dependencies.

8. To perform maven, install/build/clean etc, right click on project and click "Run as" -> Select option.

## Server:

### Add Server

1. Windows -> Show View -> Servers.
2. Then in the server's view, right click and add new.
3. It will show a pop up containing many server vendors.
4. Under Apache select Tomcat v8.5 (Depending upon your downloaded server version).

## Screenshots

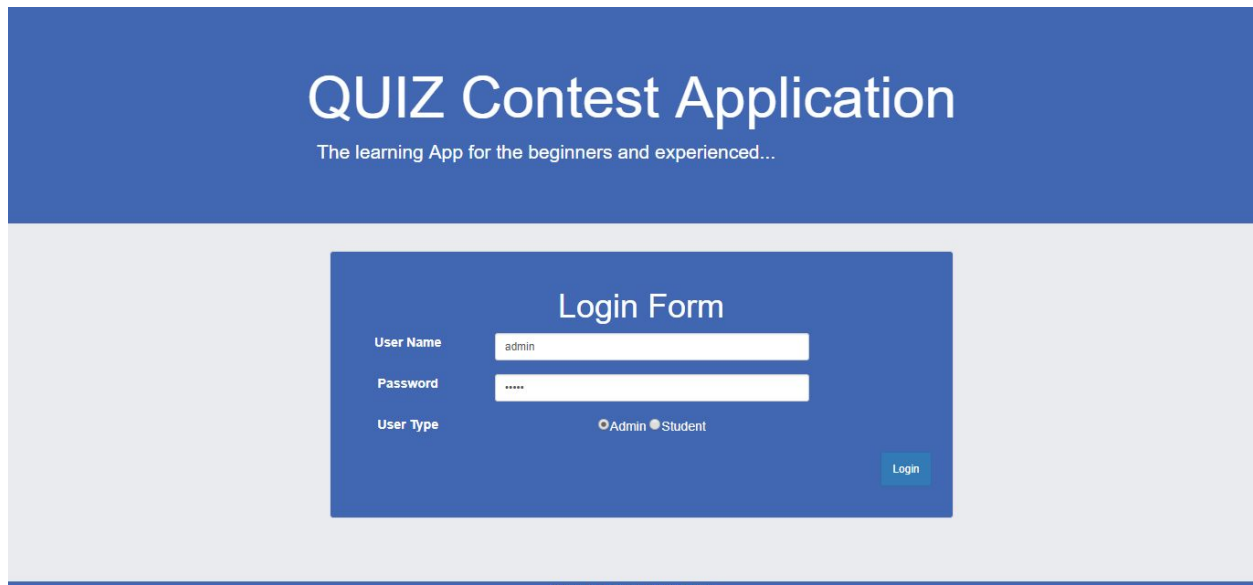
1. We used Eclipse and Tomcat server
2. The below is the Application home page to login users either Admin or Student

The screenshot shows the 'QUIZ Contest Application' home page. The header is blue with the title 'QUIZ Contest Application' and the subtitle 'The learning App for the beginners and experienced...'. Below the header is a light gray background. In the center is a blue box titled 'Login Form'. Inside the box, there are three labels: 'User Name', 'Password', and 'User Type'. Each label has a corresponding input field. The 'User Type' field has two radio buttons: 'Admin' and 'Student'. A 'Login' button is located at the bottom right of the blue box.

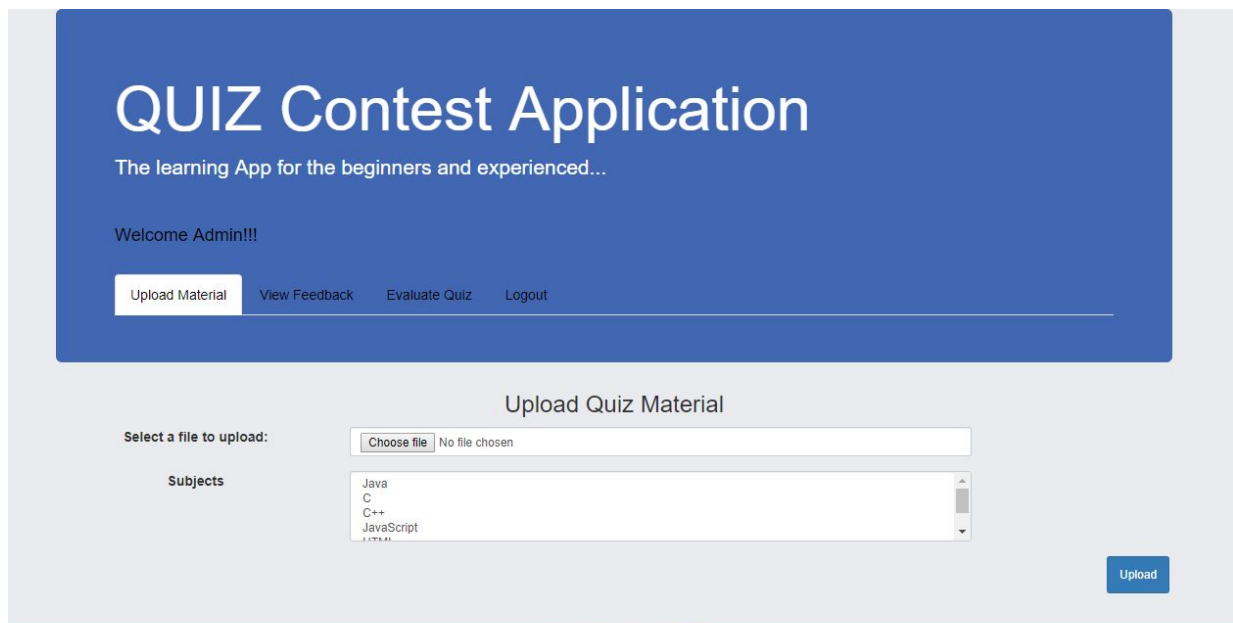
3. If we submit without entering any values, it will throw error as below:

The screenshot shows the 'QUIZ Contest Application' login page with validation errors. The header and subtitle are the same as in the previous screenshot. The 'Login Form' box is blue and contains the same labels and input fields. However, the input fields now have red error messages: 'may not be empty' for 'User Name', 'may not be empty' for 'Password', and 'may not be empty' for 'User Type'. The 'User Type' field also has a red error message 'may not be empty' below the radio buttons. The 'Login' button is still present at the bottom right of the blue box. At the bottom of the page, there is a small copyright notice: 'Copyright © quizcontest.com'.

4. Once enter correct credentials and based on user type it will show appropriate home page. The below is the home page for admin with credentials username: admin, and password: admin



The screenshot shows the login interface of the 'QUIZ Contest Application'. The header is a blue bar with the title 'QUIZ Contest Application' and the subtitle 'The learning App for the beginners and experienced...'. Below this is a light gray area containing a blue login form. The form has the title 'Login Form' and three input fields: 'User Name' with the value 'admin', 'Password' with masked characters '\*\*\*\*\*', and 'User Type' with radio buttons for 'Admin' (selected) and 'Student'. A 'Login' button is at the bottom right of the form.

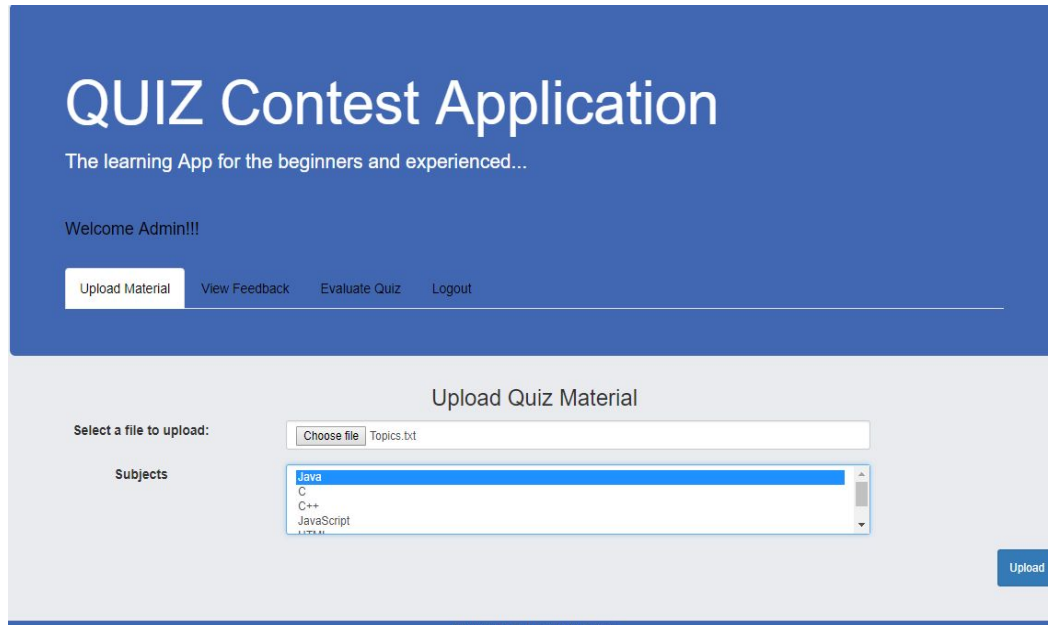


The screenshot shows the admin home page of the 'QUIZ Contest Application'. The header is a blue bar with the title 'QUIZ Contest Application' and the subtitle 'The learning App for the beginners and experienced...'. Below this is a light gray area. The top section is a blue bar with the text 'Welcome Admin!!!' and a navigation menu with buttons: 'Upload Material' (highlighted), 'View Feedback', 'Evaluate Quiz', and 'Logout'. Below this is a section titled 'Upload Quiz Material'. It includes a 'Select a file to upload:' label, a 'Choose file' button, and a text input field showing 'No file chosen'. To the left of a subject selection dropdown is the label 'Subjects'. The dropdown menu is open, showing a list of subjects: 'Java', 'C', 'C++', 'JavaScript', and 'JSP/PHP'. An 'Upload' button is at the bottom right of the section.



Admin can upload quiz materials to the system, he can view feedback about the forum, he can evaluate the quiz.

The below is the upload material page:



The screenshot shows the 'Upload Quiz Material' page of the 'QUIZ Contest Application'. The page has a blue header with the title 'QUIZ Contest Application' and the subtitle 'The learning App for the beginners and experienced...'. Below the header, there is a 'Welcome Admin!!!' message and a navigation bar with buttons for 'Upload Material', 'View Feedback', 'Evaluate Quiz', and 'Logout'. The main content area is titled 'Upload Quiz Material' and contains a 'Select a file to upload:' section with a 'Choose file' button and a text input field containing 'Topics.txt'. Below this, there is a 'Subjects' section with a dropdown menu showing 'Java', 'C', 'C++', and 'JavaScript'. An 'Upload' button is located at the bottom right of the form.

The below is the page once successfully upload the file.

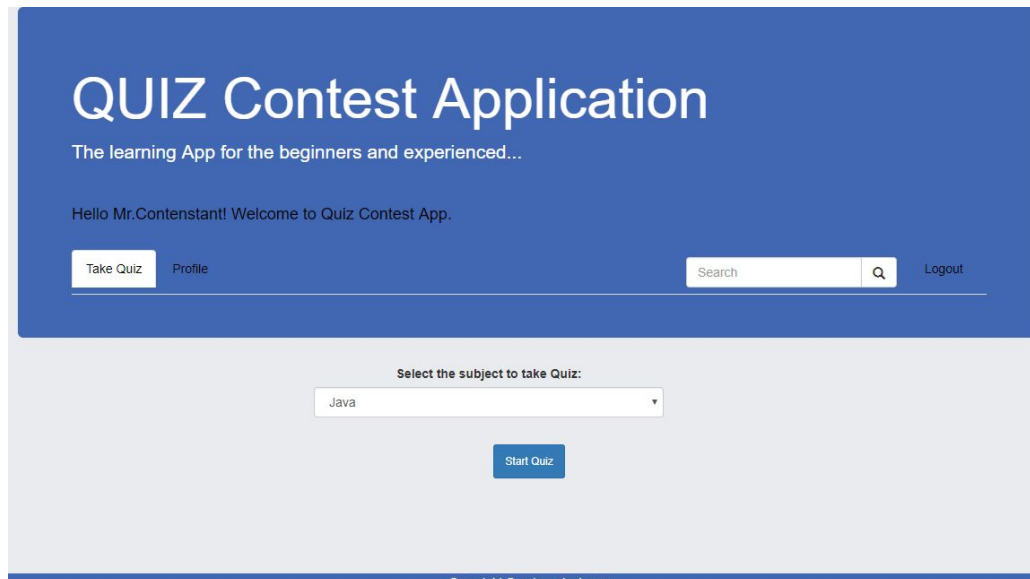
The screenshot shows the 'Upload Quiz Material' page of the QUIZ Contest Application. The header is blue with the title 'QUIZ Contest Application' and the tagline 'The learning App for the beginners and experienced...'. Below the header, a navigation bar contains links: 'Upload Material' (active), 'View Feedback', 'Evaluate Quiz', and 'Logout'. The main content area is light gray and features a 'Select a file to upload:' section with a 'Choose file' button and a text input field containing 'Topics.txt'. Below this is a 'Subjects' section with a dropdown menu showing 'Java', 'C', 'C++', 'JavaScript', and 'HTML'. A green message 'File uploaded Successfully!' is displayed at the bottom, along with a copyright notice 'Copyright © quizcontest.com'. An 'Upload' button is located in the bottom right corner.

Below is the **View Feedback** page:

The screenshot shows the 'View Feedback' page of the QUIZ Contest Application. The header is blue with the title 'QUIZ Contest Application' and the tagline 'The learning App for the beginners and experienced...'. Below the header, a navigation bar contains links: 'Upload Material', 'View Feedback' (active), 'Evaluate Quiz', and 'Logout'. The main content area is light gray and features a section titled 'Feedback on this forum' with a dashed line separator. Below the separator, there are three feedback entries: 'Guest says: This is a very useful forum for freshers.', 'Anand says: Very Useful.', and 'Guest says: Very good site for technical stuff.'.

Once any user click on Logout link he will ask for login again.

The below is the home page for Student:



The screenshot shows the home page of a 'QUIZ Contest Application'. The header is blue with the title 'QUIZ Contest Application' and the tagline 'The learning App for the beginners and experienced...'. Below the header, a welcome message reads 'Hello Mr.Contenstant! Welcome to Quiz Contest App.' The navigation bar includes 'Take Quiz' and 'Profile' buttons on the left, a search bar with a magnifying glass icon in the center, and a 'Logout' link on the right. The main content area has a light gray background and features a label 'Select the subject to take Quiz:' above a dropdown menu currently showing 'Java'. A blue 'Start Quiz' button is positioned below the dropdown.

Student can take the quiz by selecting one of the subjects he interested: Below is the quiz page looks like once he clicks on start quiz button:

# QUIZ Contest Application

The learning App for the beginners and experienced...

Hello Mr.Contenstant! Welcome to Quiz Contest App.

[Take Quiz](#)[Profile](#)

[Logout](#)

1. Is Java is pure Object Oriented language? Why?  
**Answer:**

2. Explain OOOPS concepts with examples?  
**Answer:**

2. Explain OOOPS concepts with examples?  
**Answer:**

3. Differece between abstraction and encapsulation?  
**Answer:**

4. What over loading and overriding in Java?  
**Answer:**

5. What is Polymorphism? Explain?  
**Answer:**

We got all these questions from material uploaded by Admin.

References:

1. [www.mkyong.com/tutorials](http://www.mkyong.com/tutorials)
2. [www.w3schools.com/css/css\\_margin.asp](http://www.w3schools.com/css/css_margin.asp)
3. [www.tutorialspoint.com](http://www.tutorialspoint.com)
4. [www.free-css.com](http://www.free-css.com)
5. <https://tomcat.apache.org/download-90.cgi>
6. Alvaro, Bharat, Rabin
7. [www.tutorialspoint.com](http://www.tutorialspoint.com)
8. [www.youtube.com](http://www.youtube.com)