

Assignment 8

Quiz app

Webservice:

index.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>login</title>

  <link rel="stylesheet" href="style.css" type="text/css">

</head>

<body>
  <section>
    <div class="sec2">

      <div class="form__container">
        <form method="post" action="validateuser">

          <div class="input__container">
            <h1>login</h1>
          </div>
          <div class="input__container">
            <label>Username</label>
            <input type="text" name="email" id="email">
          </div>
          <div class="input__container">
            <label>Password</label>
            <input type="password" name="password" id="password" autocomplete>
          </div>

          <div class="input__container">
            <label>Select Role</label>
            <select name="role">
              <option value="student">student</option>
              <option value="faculty">faculty</option>
            </select>
          </div>

        </form>
      </div>
    </div>
  </section>
</body>
```

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```
        <div class="input__container" id="buttons">
            <input type="submit" name="login" value="login" id="loginbtn">
        </div>
    </form>
</div>
</div>

</section>
</body>
<script src="validate.js"></script>
</html>
```

Validateuser.java:

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.sql.*;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.servlet.http.HttpSession;

@WebServlet(urlPatterns = {"/validateuser"})
public class validateuser extends HttpServlet {

    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        HttpSession session=request.getSession();

        try {
            Class.forName("com.mysql.jdbc.Driver");
        } catch (ClassNotFoundException ex) {
            Logger.getLogger(validateuser.class.getName()).log(Level.SEVERE, null, ex);
        }

        String username=request.getParameter("email");
        String password=request.getParameter("password");
        String role=request.getParameter("role");

        try (PrintWriter out = response.getWriter()) {
            //      out.println(username);
            //      out.println(role);
```

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```
try
{
    Connection connection = DriverManager.getConnection("jdbc:mysql://localhost/quizapp",
"root", "");
    Statement st=connection.createStatement();
    String query="select * from user where username='"+username+"'and
password='"+password+"'";
    ResultSet rs=st.executeQuery(query);
    rs.last();
//    out.println(rs.getRow());
    if(rs.getRow()>0){
        session.setAttribute("username",username);
        session.setAttribute("loggedid",rs.getInt(1));
        if(role.matches("student")){
            response.sendRedirect(request.getContextPath() + "/Takequiz.jsp");

        }
        else{
            response.sendRedirect(request.getContextPath() + "/createquiz.jsp");
            out.println("welcome faculty");
        }
    }
    else{
        response.sendRedirect(request.getContextPath() + "/index.html");
        out.println("wrong username or password");
    }
}
catch(Exception e){
    out.println(e);
}

}

@Override
protected void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    processRequest(request, response);
}
```

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```
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    processRequest(request, response);
}

@Override
public String getServletInfo() {
    return "Short description";
}
}
```

createquiz.jsp

```
<%--
    Document : createquiz
    Created on : 21 Mar, 2022, 11:23:54 PM
    Author : hp
--%>
<%@page import="models.InsertQuiz" %>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>login</title>

    <link rel="stylesheet" href="style.css" type="text/css">

</head>

<section>
<div class="sec2">

<div class="form__container">
    <form method="post" >

        <div class="input__container">
            <h1>create Quiz</h1>
        </div>
        <div class="input__container">
            <label>Quiz name</label>
            <input type="text" name="quizname" id="quizname" placeholder="Test">
        </div>
```

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```
<div class="input__container">
    <label>Total question</label>
    <input type="number" name="totalque" id="totalque" placeholder="10" min="1">
</div>
<div class="input__container">
    <label>marks per question</label>
    <input type="number" name="marksperque" id="marksperque" placeholder="1" min="1">
</div>
<div class="input__container">
    <label>Time in minutes</label>
    <input type="number" name="time" id="time" value="10" placeholder="10" min="1">
</div>
<div class="input__container" id="buttons">
    <input type="submit" name="createquiz" value="create quiz" id="createquiz">
</div>
```

</form>

</div>

</div>

<%

```
int res=0;
```

```
if(request.getParameter("createquiz")!=null){
```

```
    String quizname=request.getParameter("quizname");
```

```
    int totalquestion=Integer.parseInt(request.getParameter("totalque"));
```

```
    int totaltime=Integer.parseInt(request.getParameter("time"));
```

```
    int marksperques=Integer.parseInt(request.getParameter("marksperque"));
```

```
    InsertQuiz insertquiz=new InsertQuiz();
```

```
    insertquiz.setQuizname(quizname);
```

```
    insertquiz.setMarksperquestion(marksperques);
```

```
    insertquiz.setTotalquestion(totalquestion);
```

```
    insertquiz.setTotaltime(totaltime);
```

```
res=insertquiz.insert();
```

```
if(res==1){
```

```
    out.println("success");
```

```
    session.setAttribute("totalquestion",totalquestion);
```

```
    session.setAttribute("quizname",quizname);
```

```
    response.sendRedirect(request.getContextPath() + "/insertquestion.jsp");
```

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```
    }  
    else{  
        response.sendRedirect(request.getContextPath() + "/index.html");  
        out.println("failed");  
    }  
}  
  
%>  
  
</section>  
  
</body>  
</html>
```

```
Insertquestion.java(bean):  
package models;  
import java.io.Serializable;  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.ResultSet;  
import java.sql.SQLException;  
import java.sql.Statement;  
import java.sql.Timestamp;  
import java.util.logging.Level;  
import java.util.logging.Logger;  
  
/**  
 *  
 * @author hp  
 */  
public class InsertQuiz implements Serializable {  
    private String Quizname;  
    private int Totalquestion;  
    private int Totaltime;  
    private int Marksperquestion;  
  
    public InsertQuiz(){  
  
    }  
  
    //getter setter for quizname  
    public String getQuizname(){  
        return this.Quizname;  
    }  
    public void setQuizname(String quizname){  
        this.Quizname=quizname;  
    }  
}
```

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```
}

//getter setter for totaltime
public int getTotaltime(){
    return this.Totaltime;
}
public void setTotaltime(int totaltime){
    this.Totaltime =totaltime;
}

//getter setter for Totalquestion
public int getTotalquestion(){
    return this.Totalquestion;
}
public void setTotalquestion(int totalquestion){
    this.Totalquestion =totalquestion;
}

//getter setter for marksperquestion
public int getMarksperquestion(){
    return this.Marksperquestion;
}
public void setMarksperquestion (int marksperquestion ){
    this.Marksperquestion =marksperquestion ;
}

public int insert(){
    int res=0;
    try {
        Class.forName("com.mysql.jdbc.Driver");
    } catch (ClassNotFoundException ex) {
        Logger.getLogger(InsertQuiz.class.getName()).log(Level.SEVERE, null, ex);
    }

    try
    {

        Connection connection = DriverManager.getConnection("jdbc:mysql://localhost/quizapp",
"root", "");
        Statement st=connection.createStatement();
        String query="insert into quiz
value(Null, '"+this.Quizname+"', '"+this.Marksperquestion+"', '"+this.Totalquestion+"', '"+this.Totaltime+"')";
        res=st.executeUpdate(query);

    }
}
```

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```
        catch(Exception e){
            System.out.println(e);
        }

        return res;

    }

}
```

Insertquestion.jsp:

```
<%--
    Created on : 21 Mar, 2022, 11:23:54 PM
    Author    : hp
--%>
<%@page import="java.sql.*"%>
<%@page import="java.sql.Statement"%>
<%@page import="java.sql.DriverManager"%>
<%@page import="java.sql.Connection"%>
<%@page import="java.util.logging.Logger"%>
<%@page import="java.util.logging.Level"%>
<%@page import="models.Insertquestion" %>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>login</title>

    <link rel="stylesheet" href="style.css" type="text/css">

</head>
<%
    if(null==session.getAttribute("addedquestion")){
        session.setAttribute("addedquestion",0);
    }
%>

<section>
<div class="sec2">

<div class="form__container">
    <form method="post" >

        <div class="input__container">
```


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```
<h1>
    <%out.println(session.getAttribute("quizname")); %>
</h1>
<p>Add question</p>
<%out.println(session.getAttribute("addedquestion")+ " of
"+session.getAttribute("totalquestion")); %>
</div>

<div class="input__container">
    <label>Question</label>
    <input type="text" name="question" id="quizname" placeholder="Test">
</div>
<div class="input__container">
    <label>Option 1</label>
    <input type="text" name="option1" id="totalque" >
</div>
<div class="input__container">
    <label>Option 2</label>
    <input type="text" name="option2" id="totalque" >
</div>
<div class="input__container">
    <label>Option 3</label>
    <input type="text" name="option3" id="totalque" >
</div>
<div class="input__container">
    <label>Option 4</label>
    <input type="text" name="option4" id="totalque" >
</div>

<div class="input__container">
    <label>Select correct option</label>
    <select name="correctoption">
        <option value="option1">option 1</option>
        <option value="option2">option 2</option>
        <option value="option3">option 3</option>
        <option value="option4">option 4</option>
    </select>
</div>
<div class="input__container" id="buttons">
    <input type="submit" name="addquestion" value="add question" id="addquestion">
</div>

</form>
</div>
</div>
```

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```
</section>
<%
    if(request.getParameter("addquestion")!=null){
        int currentquestions=(Integer)session.getAttribute("addedquestion");
        currentquestions++;
        session.setAttribute("addedquestion",currentquestions);
        String quizname=(String)session.getAttribute("quizname");
        int totalquestion=(Integer)session.getAttribute("totalquestion");
        String question=request.getParameter("question");
        String option1=request.getParameter("option1");
        String option2=request.getParameter("option2");
        String option3=request.getParameter("option3");
        String option4=request.getParameter("option4");
        String correctoption=request.getParameter("correctoption");

        Insertquestion iq=new Insertquestion();
        iq.setCorrectOption(correctoption);
        iq.setOption1(option1);
        iq.setOption2(option2);
        iq.setOption3(option3);
        iq.setOption4(option4);
        iq.setQuestion(question);
        iq.setQuizname(quizname);

        int res=iq.insert();

        if(res==1){
            if(currentquestions>=totalquestion){
                session.removeAttribute("addedquestion");
                response.sendRedirect(request.getContextPath() + "/createquiz.jsp");
            }
            else{
                response.sendRedirect(request.getContextPath() + "/insertquestion.jsp");
            }
        }
        else{
            out.println("failed");
        }
    }
%>

</body>
```

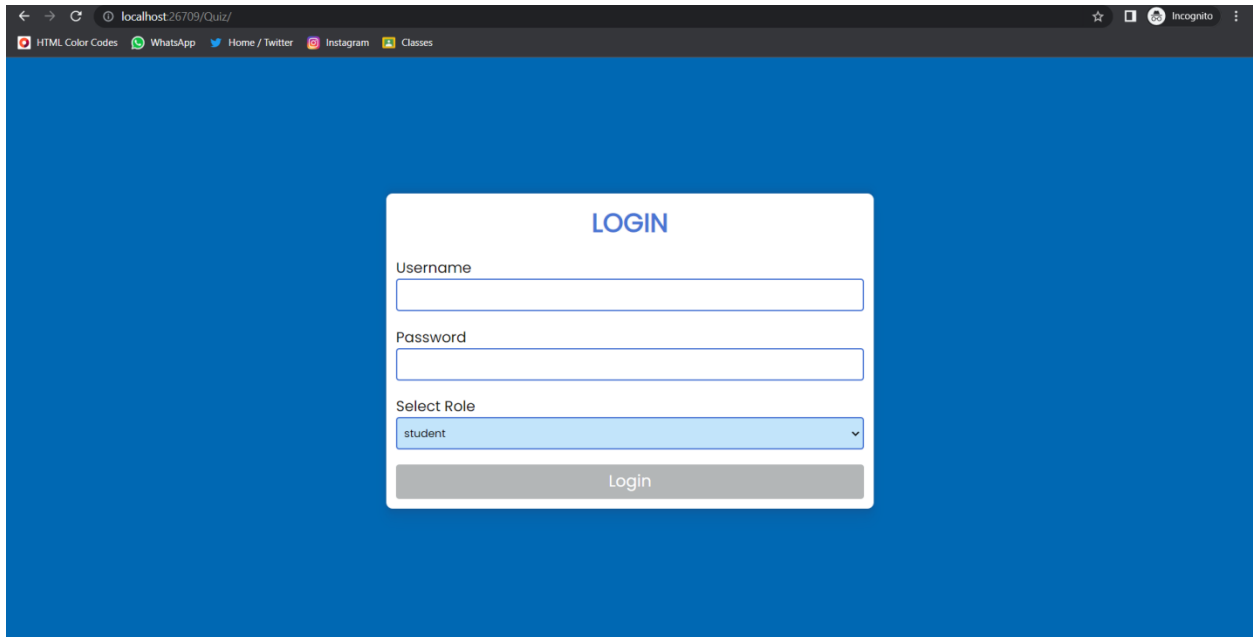
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</html>

Output:

Login page:

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← → ↻ localhost:26709/Quiz/ ☆ Incognito

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LOGIN

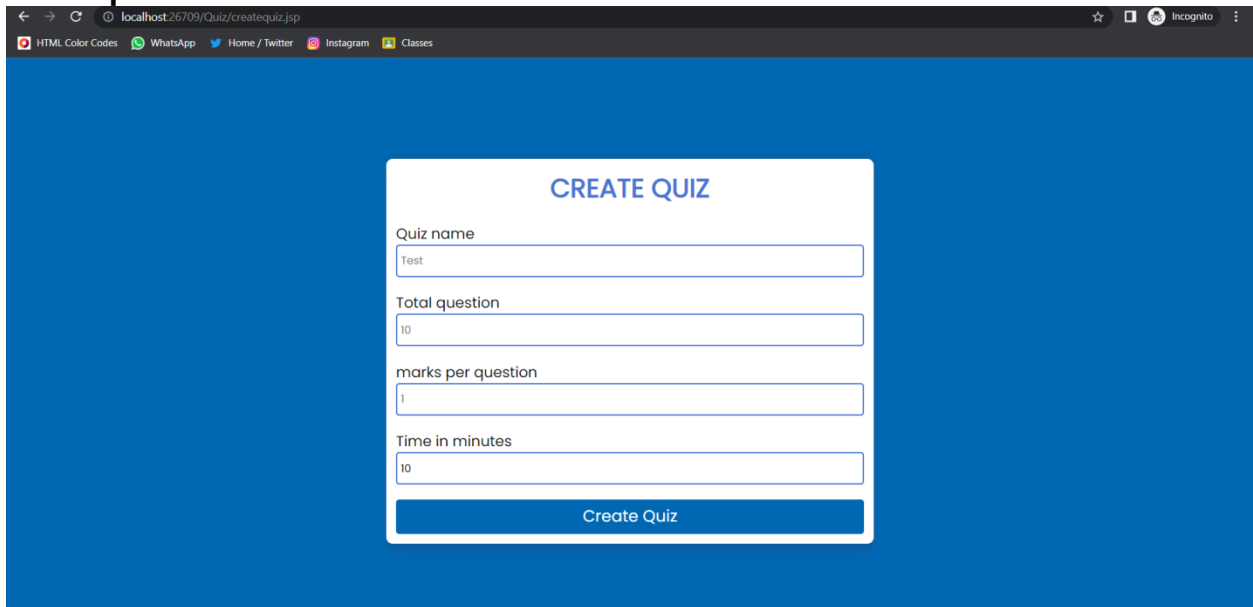
Username

Password

Select Role
student ▼

Login

Create quiz:



← → ↻ localhost:26709/Quiz/createquiz.jsp ☆ Incognito

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CREATE QUIZ

Quiz name
Test

Total question
10

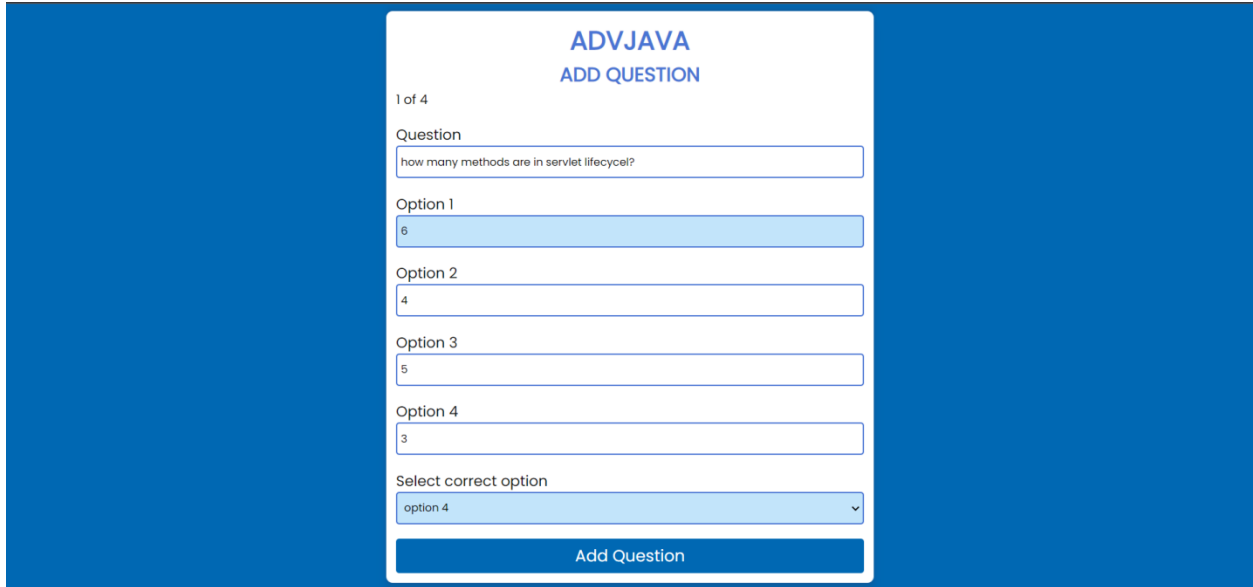
marks per question
1

Time in minutes
10

Create Quiz

add question:

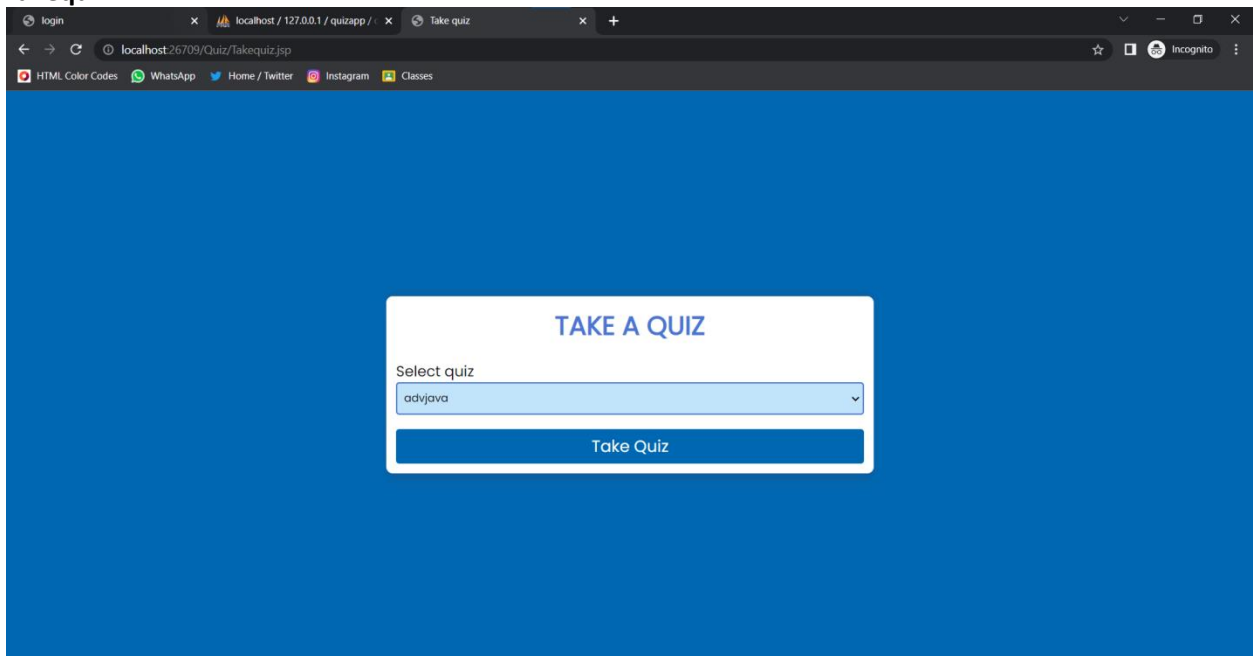
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The screenshot shows a web form titled "ADVJAVA ADD QUESTION" on a blue background. The form is white with a blue border. It contains the following elements:

- A header "ADVJAVA" in blue and "ADD QUESTION" in blue.
- A progress indicator "1 of 4".
- A "Question" label followed by a text input field containing "how many methods are in servlet lifecycle?".
- An "Option 1" label followed by a text input field containing "6".
- An "Option 2" label followed by a text input field containing "4".
- An "Option 3" label followed by a text input field containing "5".
- An "Option 4" label followed by a text input field containing "3".
- A "Select correct option" label followed by a dropdown menu showing "option 4".
- An "Add Question" button at the bottom.

Takequiz:



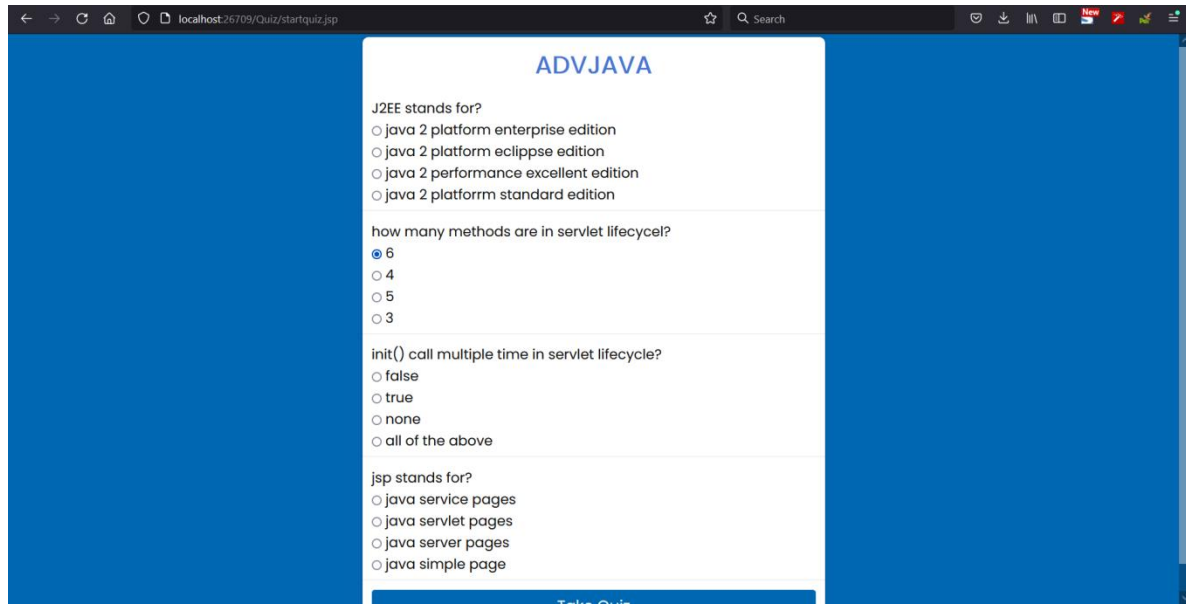
The screenshot shows a web browser window displaying a form titled "TAKE A QUIZ" on a blue background. The browser's address bar shows "localhost:26709/Quiz/Takequiz.jsp". The form is white with a blue border and contains the following elements:

- A header "TAKE A QUIZ" in blue.
- A "Select quiz" label followed by a dropdown menu showing "advjava".
- A "Take Quiz" button at the bottom.

Start quiz:

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The screenshot shows a web browser window with the address bar displaying 'localhost:26709/Quiz/startquiz.jsp'. The page has a blue header with the title 'ADVJAVA'. Below the header, there are four multiple-choice questions. The first question is 'J2EE stands for?' with four options: 'java 2 platform enterprise edition', 'java 2 platform eclippse edition', 'java 2 performance excellent edition', and 'java 2 platform standard edition'. The second question is 'how many methods are in servlet lifecycel?' with four options: '6' (selected), '4', '5', and '3'. The third question is 'init() call multiple time in servlet lifecycle?' with four options: 'false', 'true', 'none', and 'all of the above'. The fourth question is 'jsp stands for?' with four options: 'java service pages', 'java servlet pages', 'java server pages', and 'java simple page'. At the bottom of the page, there is a button labeled 'Take Quiz'.

ADVJAVA

J2EE stands for?

- ☐ java 2 platform enterprise edition
- ☐ java 2 platform eclippse edition
- ☐ java 2 performance excellent edition
- ☐ java 2 platform standard edition

how many methods are in servlet lifecycel?

- ☒ 6
- ☐ 4
- ☐ 5
- ☐ 3

init() call multiple time in servlet lifecycle?

- ☐ false
- ☐ true
- ☐ none
- ☐ all of the above

jsp stands for?

- ☐ java service pages
- ☐ java servlet pages
- ☐ java server pages
- ☐ java simple page

Take Quiz