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## Develop web application of "Online Study".

- o Registration for new users followed by login.
- Maintain a session for each user.
- Course choice selection page with free courses and paid, based on the selection of course cart must reflect the price.
- Implement required database connection using MVC architecture.

#### User table

```
Create table users (userid Number PRIMARY KEY, name varchar2(50) NOT NULL, password varchar2(100) NOT NULL, email VARCHAR2(100) NOT NULL, age number, phone_number number, education VARCHAR2(20)); select * From users;
```

#### Course table

Create table course (courseid Number PRIMARY KEY, cname varchar2(50), duration varchar2(100), price number);

```
insert into course values(1,'sql','2months',0);
insert into course values(2,'java','1months',0);
insert into course values(3,'Esecurity','1months',0);
insert into course values(4,'asp.net','4months',1000);
insert into course values(5,'nosql','3months',200);
select * from course;
```

Create table SelectedCourse(courseid Number, userid number, FOREIGN KEY (courseid) REFERENCES course(courseid), FOREIGN KEY (userid) REFERENCES users(userid));

## Login.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>JSP Page</title>
```

```
</head>
<body bgcolor='cyan'>
<center>
<h1>Online study</h1>
<h1>Login From</h1>
<form action="LoginValidation">
     User Name: <input type='text' name='uname'><br><br><
Password :<input type='Password' name='Password'><br><br>
<input type='submit' value='Login'>
</form>
<br>
<br>
<a href='Register.jsp'>Register</a>
</center>
</body>
</html>
Loginvalidation.java (servlet)
* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to
change this license
* Click nbfs://nbhost/SystemFileSystem/Templates/JSP Servlet/Servlet.java to edit this
template
*/
package onlineStudy;
import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.*;
public class LoginValidation extends HttpServlet {
  @Override
```

```
protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws
 ServletException, IOException {
      resp.setContentType("text/html");
      PrintWriter out= resp.getWriter();
      String uname = req.getParameter("uname");
      String password = req.getParameter("Password");
      Connection con;
      try
       Class.forName("oracle.jdbc.OracleDriver");
        con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","system","Darshan");
       String query = "select NAME, PASSWORD FROM users";
       Statement smt= con.createStatement();
       ResultSet rs= smt.executeQuery(query);
       int result =0;
       while(rs.next())
         if(rs.getString("NAME").equals(uname) &&
 rs.getString("PASSWORD").equals(password))
         {
            result=1;
            HttpSession session =req.getSession();
            session.setAttribute("user", uname);
       RequestDispatcher RD = req.getRequestDispatcher("OnlineController");
            RD.forward(req, resp);
            out.println("login done");
       if(result ==0)
          out.println("<b> Sorry, your UserName or password is Incorrect!!");
```

```
RequestDispatcher RD = req.getRequestDispatcher("Login.jsp");
       RD.include(req, resp);
     }
    }
    catch(Exception e)
     System.out.println(e);
   }
 }
}
Register.jsp
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
 <head>
   <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>JSP Page</title>
  </head>
 <body>
   <body bgcolor='cyan'>
 <center>
    <h1>Online study</h1>
    <h1>Registration From</h1>
    <form action="Registation">
     User Name: <input type='text' name='user'><br><br>
     Email: <input type='text' name='Eamil'><br><br>
     age: <input type='text' name='Age'><br><br>
     Contact number: <input type='text' name='cno'><br><br>
     Password : <input type='Password' name='Pass'><br><br>
      <input type='submit' value='Register'>
    </form>
    <br><br><
    <a href='Login.jsp'>Already hava an account</a>
  </center>
```

```
</body>
</html>
Registration.java(servlet)
package onlineStudy;
import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.*;
public class Registation extends HttpServlet {
  @Override
  protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws
ServletException, IOException {
  resp.setContentType("text/html");
  PrintWriter out = resp.getWriter();
   Connection con = null;
    int uno=0;
   try
   {
      Class.forName("oracle.jdbc.OracleDriver");
      con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","system","Vaibhav
ee");
      String Query="Select max(userid) maxnum from users";
      Statement smt = con.createStatement();
      ResultSet rs= smt.executeQuery(Query);
      while(rs.next())
```

```
uno = rs.getInt("maxnum");
      }
      rs.close();
      smt.close();
      con.close();
   }
   catch(Exception e)
      System.out.println(e);
   uno++;
    out.println("<html>");
    out.println("<body>");
    String User = req.getParameter("user");
    String age = req.getParameter("Age");
    String Email = req.getParameter("Eamil");
    String Cno = req.getParameter("cno");
    String Edu = req.getParameter("education");
    String password = req.getParameter("Pass");
    try{
      Class.forName("oracle.jdbc.OracleDriver");
      con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","system","Darshan
");
      Statement stmt = con.createStatement();
      String query = "insert into users values("
           +uno+",'"+ User+ "','"+ password +"','"+Email +"',"+age+ ","+ Cno +",'"+Edu +
"")";
      stmt.executeUpdate(query);
      stmt.close();
      con.close();
      RequestDispatcher RD = req.getRequestDispatcher("Login.jsp");
      RD.forward(req, resp);
    catch(Exception e)
      System.out.println(e);
```

```
}
CourseList.java (java class)
package onlineStudy;
import java.sql.*;
public class CourseList {
  ResultSet getStudList()
  Connection con;
  try
    Class.forName("oracle.jdbc.OracleDriver");
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","system","Darshan
");
    String query = "select * from Course order by courseid";
      Statement stmt=con.createStatement();
      ResultSet rs=stmt.executeQuery(query);
      return rs;
   catch(Exception e)
    System.out.println(e);
    return null;
}
OnlineController.java(servlet)
package onlineStudy;
import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
```

```
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.*;
public class OnlineController extends HttpServlet {
  @Override
  protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws
ServletException, IOException {
    resp.setContentType("text/html");
    PrintWriter out = resp.getWriter();
    out.println("<html>");
    out.println("<body>");
      CourseList s = new CourseList();
      ResultSet rs=s.getStudList();
     req.setAttribute("List", rs);
      RequestDispatcher rd=req.getRequestDispatcher("Course.jsp");
      rd.forward(req, resp);
    out.println("</body>");
    out.println("</html>");
  }
Course.jsp
<%--
  Document : Course
  Created on: 17-Oct-2023, 12:31:04 PM
  Author: NIRALI
--%>
<%@page import="java.sql.*" %>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
  <head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
 <title>JSP Page</title>
</head>
<body bgcolor='cyan' >
 <%
 ResultSet rs=(ResultSet)request.getAttribute("List");
 %>
<center>
 Welcome <%=(String)session.getAttribute("user")%>
 Course List
 Course name
 Course duration
 Course Price
 <%
   while(rs.next())
 %>
 <<td><%=rs.getString("cname") %> 
 <%=rs.getString("duration") %> 
 <%=rs.getString("price") %> 
  <a href='addCourse?id=<%= rs.getInt("courseid") %>'>Add to cart</a>
 <%
 %>
```

```
<form action="SelectedCoureses" >
      <input type="submit" value="submit" />
    </form>
  </center>
  </body>
</html>
addCourse.java(servlet)
package onlineStudy;
import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.*;
public class addCourse extends HttpServlet {
  @Override
  protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws
ServletException, IOException {
    HttpSession session = req.getSession();
    String user =(String)session.getAttribute("user");
    resp.setContentType("text/html");
   PrintWriter out = resp.getWriter();
   Connection con = null;
       int userid=0;
   try
      Class.forName("oracle.jdbc.OracleDriver");
      con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","system","Darshan
");
      String Query="Select userid from users where name = "" + user + """;
```

```
Statement smt = con.createStatement();
      ResultSet rs= smt.executeQuery(Query);
      while(rs.next())
        userid = rs.getInt("USERID");
      rs.close();
      smt.close();
      con.close();
   catch(Exception e)
      System.out.println(e);
   }
   String courseid =req.getParameter("id");
   int cid = Integer.parseInt(courseid);
    try{
      Class.forName("oracle.jdbc.OracleDriver");
      con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","system","Darshan
");
      //Statement stmt = con.createStatement();
      String query = "insert into SelectedCourse values(?, ?)";
      PreparedStatement pstmt = con.prepareStatement(query);
      pstmt.setString(1, courseid);
      pstmt.setInt(2, userid);
      pstmt.executeUpdate();
      pstmt.close();
      con.close();
    catch(Exception e)
      System.out.println(e);
```

```
}
      out.println("<b> course it edded!!");
      RequestDispatcher RD = req.getRequestDispatcher("OnlineController");
      RD.include(req, resp);
  }
}
SelectedCoureses.java(servlet)
package onlineStudy;
import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.*;
public class SelectedCoureses extends HttpServlet {
  @Override
  protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws
ServletException, IOException {
    resp.setContentType("text/html");
    PrintWriter out = resp.getWriter();
    HttpSession session = req.getSession();
    String user =(String)session.getAttribute("user");
    resp.setContentType("text/html");
   Connection con = null;
    int userid=0;
   try
   {
      Class.forName("oracle.jdbc.OracleDriver");
      con =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","system","Darshan
");
```

```
String Query="Select userid from users where name = "" + user + """;
    Statement smt = con.createStatement();
    ResultSet rs= smt.executeQuery(Query);
    while(rs.next())
      userid = rs.getInt("USERID");
    rs.close();
    smt.close();
    String query2 = "select courseid from SelectedCourse where userid=" + userid;
    Statement smt1 = con.createStatement();
    ResultSet rs1= smt1.executeQuery(query2);
    req.setAttribute("selectCourses", rs1);
    RequestDispatcher rd=req.getRequestDispatcher("FinalCourses.jsp");
    rd.forward(req, resp);
    rs1.close();
    smt1.close();
    con.close();
 catch(Exception e)
    System.out.println(e);
}
```

# **OUTPUT:**

Online study
Registration From
User Name: Hetvi
Email: hetvi@gmail.com
age: 21
Contact number: 01234567812
Education background: bscit
Password : ••••
Register
Already hava an account

Online study
Login From
User Name: hetvi
Password : ••••
Login
<u>Register</u>

#### Welcome Tulsi **Course List** Course name Course duration Course Price Add to cart 0 java 2months 0 sql 1months Add to cart Esecurity 1months 0 Add to cart Add to cart asp.net 4months 1000 200 3months Add to cart nosql submit