

## CS451 DISTRIBUTED COMPONENT OBJECT TECHNOLOGIES LAB

### Course Description & Objective:

To understand the development of enterprise applications using 'java 2 Platform, enterprise Edition (J2EE) and .NET'. ADO.NET provides consistent access to data sources such as Microsoft SQL Server, as well as data sources exposed through OLE DB and XML.

### Course Outcomes:

After completing this course a student is capable of:

- Gain knowledge on J2EE architecture
- Distributive systems introduction
- EJB implementation
- ASP.net introduction
- Developing web controls

### PART-1

1. Create a database 'VIGNAN' and three tables with specific constraints.
2. Insert the information in all the three tables using JDBC application.
3. Update and delete the specific information of any one table by specifying the condition by using 'where' clause.
4. List the entire content of any one table.
5. Create an HTML file named insertEmployee.html and then create a servlet EmployeeServlet.java to insert employee information into 'Employee' table.
6. Create an HTML file named employee.html and a servlet named GetServlet1.java. With the help of employee.html, we send the 'ID' of an employee to the GetServlet1 program.
7. Then, we use it to retrieve his/her information from 'Employee' table and display it on to the browser.
8. Create an HTML file AddCookies.html which contains four text boxes .  
When user enters the values in these text boxes and press the

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- submit button, the values will be sent to AddCookies.java servlet and get saved in cookies.
9. Create an HTML form login.html that accepts the username and password and submits to login.java servlet. Verify credentials and on success, set the username in the HTTP Session and show a "Welcome <username>" message. (Use the request.getSession().setAttribute() method)
  10. Design a registrationform.jsp page with all user registration information and after filling all the details, transfer all the filled information to registrationsuccess.jsp page.(use Implicit objects)
  11. Create connection.jsp which contains database connection settings and include this file in registrationsuccess.jsp page to save 'registration' details into registration table.
  12. Design a StudentBean class with getter/setters for the Student details like firstname,lastname and age; Access the above bean class in JSP. You can use <jsp:getProperty/> action to access get methods and <jsp:setProperty/> action to access set methods
  13. Write a program to accept citizen name,address& age in struts.If age is greater than 18 then allow the person for voting
  14. Demonstrate a program in struts that uses Action Class
  15. Demonstrate a database application in struts.

#### **PART-2**

1. Create a Project using Visual Studio to display "Hello World" message on the browser screen.
2. Design a registration page using ASP.NET form controls.
3. Demonstrate the use of HTML Server controls using ASP.NET.
4. Demonstrate the use of Server Controls in ASP.NET.
5. Create a Data Source for SQL Database Server in Visual Studio.
6. Create a dropdown server control using ASP.NET and bind the data source created earlier to this control.
7. Create a Grid View for the table that was created using SQL Server and write appropriate code for handling updations to that table through grid view.

**TEXT-BOOKS :**

1. Jim Keogh "The complete reference J2EE", 2nd ed., Tata McGraw Hill publishers, 2007.
2. Bill Evjen, Scott Hanselman, Farhan Muhammad, Srinivasa Sivakumar, Devin Rader, "ProfessionalASP.NET 2.0", 1st ed., WROX Publishers; 2005.

**REFERENCE BOOKS :**

1. Herebertschildt " Java 2 complete reference" 5th ed., TMH, 2008.
2. Black " Java server programming" J2EE, 1st ed., Dream Tech Publishers, 2008.
3. Kathy walrath " The J2EE tutorial" , 1st ed., Addison Wesley Publishers, 2005.
4. Kathleen Kalata, "Introduction to ASP NET 2.0", 3rd ed., Cengage Learning; 2007.
5. Jesse Liberty, Dan Hurwitz, "Programming ASP.NET" , 3rd ed., OReilly; 2005.