

COLOR

```
public class Color {  
    private long COLORID;  
    private String name;  
  
    public Color() {  
  
    }  
    public Color(String name) {  
        this.COLORID=0;  
        this.name = name;  
    }  
  
    public long getCOLORID() {return this.COLORID;}  
    public String getName() { return this.name;}  
    public void setCOLORID(long id) { this.COLORID=id;}  
    public void setName(String name) { this.name = name;}  
  
}
```

INIT HIBERNATE

```
import java.io.IOException;  
import java.io.PrintWriter;  
  
import javax.servlet.ServletConfig;  
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 javax.xml.bind.*;


import java.io.Serializable;

import java.util.List;


import org.hibernate.Session;

import org.hibernate.SessionFactory;

import org.hibernate.Transaction;

import org.hibernate.cfg.Configuration;


@WebServlet("/InitHibernate")

public class InitHibernate extends HttpServlet {

    private static final long serialVersionUID = 1L;


    /**
     * @see HttpServlet#HttpServlet()
     */
    public InitHibernate() {

        super();

        // TODO Auto-generated constructor stub

    }
```

```

/**
 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
 */
protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
    // TODO Auto-generated method stub
    try {
        PrintWriter out = response.getWriter();
        out.println("<html><body>");

        SessionFactory factory = HibernateUtil.getSessionFactory();

        Session session = factory.openSession();
        out.println("Hibernate Session opened.<br>");
        session.close();
        out.println("Hibernate Session closed.<br>");

        out.println("</body></html>");

    } catch (Exception ex) {
        throw ex;
    }
}

/**

```

```

    * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
    */

    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {

        // TODO Auto-generated method stub

        doGet(request, response);

    }

}

```

WEB.XML

```

<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_4_0.xsd" id="WebApp_ID"
version="4.0">
    <display-name>JDBCSetup</display-name>
    <welcome-file-list>
        <welcome-file>index.html</welcome-file>
        <welcome-file>index.htm</welcome-file>
        <welcome-file>index.jsp</welcome-file>
        <welcome-file>default.html</welcome-file>
        <welcome-file>default.htm</welcome-file>
        <welcome-file>default.jsp</welcome-file>
    </welcome-file-list>
    <servlet>
        <servlet-name>DemoJDBC</servlet-name>
        <servlet-class>DemoJDBC</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>DemoJDBC</servlet-name>
        <url-pattern>/init</url-pattern>
    </servlet-mapping>
</web-app>

```

FINANCE

```

public class Finance {
    private long FINANCEID;
    private String name;
    private String ftype;

    public Finance() {

    }

    public Finance(String name, String ftype) {
        this.FINANCEID=0;
        this.name = name;
        this.ftype = ftype;
    }

    public long getFINANCEID() {return this.FINANCEID; }
    public String getName() { return this.name;}
    public String getFtype() { return this.ftype;}
    public void setFINANCEID(long id) { this.FINANCEID = id;}
    public void setName(String name) { this.name = name;}
    public void setFtype(String ftype) { this.ftype= ftype;}

}

```

E PRODUCT

```

import java.math.BigDecimal;
import java.util.Date;

```

```
public class EProduct {  
    private long ID;  
    private String name;  
    private BigDecimal price;  
    private Date dateAdded;  
  
    public EProduct() {  
  
    }  
    public EProduct(long id, String name, BigDecimal price, Date dateAdded) {  
        this.ID = id;  
        this.name = name;  
        this.price = price;  
        this.dateAdded = dateAdded;  
    }  
  
    public long getID() {return this.ID; }  
    public String getName() { return this.name;}  
    public BigDecimal getPrice() {return this.price;}  
    public Date getDateAdded() {return this.dateAdded;}  
  
    public void setID(long id) { this.ID = id;}  
    public void setName(String name) { this.name = name;}  
    public void setPrice(BigDecimal price) { this.price = price;}  
    public void setDateAdded(Date date) { this.dateAdded = date;}  
  
}
```

E PRODUCT ENTITY

```
import java.math.BigDecimal;
import java.util.Date;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.Id;
import javax.persistence.Table;
```

```
@Entity
```

```
@Table(name= "eproduct")
```

```
public class EProductEntity{
```

```
    @Id @GeneratedValue
```

```
    @Column(name = "ID")
```

```
    private long ID;
```

```
    @Column(name = "name")
```

```
    private String name;
```

```
    @Column(name = "price")
```

```
    private BigDecimal price;
```

```
    @Column(name = "date_added")
```

```
    private Date dateAdded;
```

```
    public long getID() {return this.ID; }
```

```

public String getName() { return this.name;}

public BigDecimal getPrice() { return this.price;}

public Date getDateAdded() { return this.dateAdded;}


public void setID(long id) { this.ID = id;}

public void setName(String name) { this.name = name;}

public void setPrice(BigDecimal price) { this.price = price;}

public void setDateAdded(Date date) { this.dateAdded = date;}
}

```

HIBERNATEUTIL

```

import org.hibernate.SessionFactory;
import org.hibernate.boot.Metadata;
import org.hibernate.boot.MetadataSources;
import org.hibernate.boot.registry.StandardServiceRegistry;
import org.hibernate.boot.registry.StandardServiceRegistryBuilder;


public class HibernateUtil {

    private static final SessionFactory sessionFactory;

    static {
        try {
            StandardServiceRegistry standardRegistry = new StandardServiceRegistryBuilder()
                .configure("hibernate.cfg.xml").build();

            Metadata metaData = new
MetadataSources(standardRegistry).getMetadataBuilder().build();

            sessionFactory = metaData.getSessionFactoryBuilder().build();

```



```

        } catch (Throwable th) {
            throw new ExceptionInInitializerError(th);
        }
    }

    public static SessionFactory getSessionFactory() {
        return sessionFactory;
    }
}

```

OS

```

public class OS {

    private long OSID;
    private String name;

    public OS() {

    }

    public OS(String name) {
        this.OSID = 0;
        this.name = name;
    }

    public long getOSID() {return this.OSID;}
    public String getName() { return this.name;}
    public void setOSID(long id) { this.OSID = id;}
    public void setName(String name) { this.name= name;}
}

```

```
}
```

SCREEN SIZE

```
public class ScreenSizes {  
    private long SCREENID;  
    private String size;  
  
    public ScreenSizes() {  
  
    }  
    public ScreenSizes(String size) {  
        this.SCREENID = 0;  
        this.size = size;  
    }  
  
    public long getSCREENID() {return this.SCREENID; }  
    public String getSize() { return this.size;}  
    public void setSCREENID(long id) { this.SCREENID = id;}  
    public void setSize(String size) { this.size = size;}  
  
}
```

HANDLE ERROR

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"  
    pageEncoding="ISO-8859-1" isErrorPage ="true" %>  
<!DOCTYPE html>
```

```
<html>
<head>
<meta charset="ISO-8859-1">
<title>Error Handling pagetitle>
</head>
<body>
<% exception.printStackTrace(response.getWriter());%>
<hr>
"An exception was generated. Details are above:"<br>
</body>
</html>
```

E PRODUCT CONTROLLER

```
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.ModelMap;
import org.springframework.validation.BindingResult;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RequestParam;

import com.ecommerce.entity.EProductEntity;
import com.ecommerce.service.EProductService;

@Controller
public class EProductController {

    @Autowired
    private EProductService eproductService;

    @RequestMapping(value = "/productList", method = RequestMethod.GET)
```

```

    public String listProducts(ModelMap map)
    {
        map.addAttribute("eproduct", new EProductEntity());
        map.addAttribute("productList", eproductService.getAllProducts());
        return "productList";
    }
}

```

E PRODUCT DAO

```

import java.util.List;

import org.hibernate.SessionFactory;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Repository;
import org.springframework.stereotype.Service;
import org.springframework.transaction.annotation.Transactional;
import com.ecommerce.entity.EProductEntity;

@Repository
public class EProductDAO {

    @Autowired
    private SessionFactory sessionFactory;

    @SuppressWarnings("unchecked")
    public List<EProductEntity> getAllProducts() {
        return this.sessionFactory.getCurrentSession().createQuery("from EProducts").list();
    }
}

```

```
}
```

INDEX

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@ page errorPage ="handle-error.jsp"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>JSP Implicit Objects</title>
</head>
<body>
<%
    String responseCheck = request.getParameter("office");
    if (responseCheck != null ) {
        response.setStatus(response.SC_MOVED_TEMPORARILY);
        response.setHeader("Location", "response-
redirect.jsp?office=" + responseCheck);
    }

    String errorCheck = request.getParameter("error");
    if (errorCheck != null ) {
        int x = 0;
        if (x == 0)
            throw new RuntimeException("Exception has
been raised");
    }
%>
<%

    int serverPort = request.getServerPort() ;
    out.println("The Server is running on port " +
String.valueOf(serverPort) + "<br>");
    out.println("Servlet Name is " + config.getServletName() + "<br>");
    out.println("Server Info:" + application.getServerInfo() + "<br>");

    String pageName = page.toString();
    out.println("The name of the page is " + pageName + "<br>");

    pageContext.setAttribute("userid", "jhony");
    out.println("userId attribute from pageContext: " +
pageContext.getAttribute("userid") + "<br>");
%>
<a href="index.jsp?office=head_office_pune">Show usage of response
object</a><br>
<a href="index.jsp?error=1">Show usage of error  object</a><br>
```

```

<%
    if (response.containsHeader("Office"))
        out.println("Current location is " +
response.getHeader("Office"));
    %>

</body>
</html>

```

RESPONSE REDIRECTORY

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Get Header Example</title>
</head>
<body>
<%
    String office = request.getParameter("office");
    if (office != null)
        out.println("value of Office obtained :" + office +
"<br>");
    else
        out.println("No value of Office found<br>");
    %>

</body>
</html>

```

LOGOUT

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Session logout</title>
</head>
<body>
<%
    session.invalidate();
    %>

```

```
<b>Your session has terminated.</b><br>
<a href="index.jsp">Login again</a>

</body>
</html>
```

DASHBOARD

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Dashboard</title>
</head>
<body>
<%
    if (session.getAttribute("name") == null) {
        response.sendRedirect("index.jsp?error=1");
    }
%>
<b>Hello <%= session.getAttribute("name") %> you have successfully
logged in</b><br>
<a href="logout.jsp">Click here to logout</a>

</body>
</html>
```

LOGIN

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<%
    String name = request.getParameter("name");
    String pwd = request.getParameter("pwd");

    if (name == null || name.equals("") || pwd == null ||
pwd.equals("")) {
        response.sendRedirect("index.jsp?error=1");
    } else {

        session.setAttribute("name", name);
        response.sendRedirect("dashboard.jsp");

    }
%>
```

WEB.XML

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_4_0.xsd" id="WebApp_ID"
version="4.0">
  <display-name>CookieTrackingDemo</display-name>
  <welcome-file-list>
    <welcome-file>index.html</welcome-file>
    <welcome-file>index.htm</welcome-file>
    <welcome-file>index.jsp</welcome-file>
    <welcome-file>default.html</welcome-file>
    <welcome-file>default.htm</welcome-file>
    <welcome-file>default.jsp</welcome-file>
  </welcome-file-list>

  <servlet>
    <servlet-name>LoginServlet</servlet-name>
    <servlet-class>LoginServlet</servlet-class>
  </servlet>
  <servlet>
    <servlet-name>Dashboard</servlet-name>
    <servlet-class>Dashboard</servlet-class>
  </servlet>

  <servlet-mapping>
    <servlet-name>Dashboard</servlet-name>
    <url-pattern>/dashboard</url-pattern>
  </servlet-mapping>
  <servlet-mapping>
    <servlet-name>LoginServlet</servlet-name>
    <url-pattern>/login</url-pattern>
  </servlet-mapping>
</web-app>
```

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_4_0.xsd" id="WebApp_ID"
version="4.0">
  <display-name>URLRewriteDemo</display-name>
  <welcome-file-list>
    <welcome-file>index.html</welcome-file>
    <welcome-file>index.htm</welcome-file>
  </welcome-file-list>
</web-app>
```



```

        <welcome-file>index.jsp</welcome-file>
        <welcome-file>default.html</welcome-file>
        <welcome-file>default.htm</welcome-file>
        <welcome-file>default.jsp</welcome-file>
    </welcome-file-list>

    <servlet>
        <servlet-name>LoginServlet</servlet-name>
        <servlet-class>LoginServlet</servlet-class>
    </servlet>
    <servlet>
        <servlet-name>Dashboard</servlet-name>
        <servlet-class>Dashboard</servlet-class>
    </servlet>

    <servlet-mapping>
        <servlet-name>Dashboard</servlet-name>
        <url-pattern>/dashboard</url-pattern>
    </servlet-mapping>
    <servlet-mapping>
        <servlet-name>LoginServlet</servlet-name>
        <url-pattern>/login</url-pattern>
    </servlet-mapping>
</web-app>

```



```

<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_4_0.xsd" id="WebApp_ID"
version="4.0">
    <display-name>LoginLogout</display-name>
    <welcome-file-list>
        <welcome-file>index.html</welcome-file>
        <welcome-file>index.htm</welcome-file>
        <welcome-file>index.jsp</welcome-file>
        <welcome-file>default.html</welcome-file>
        <welcome-file>default.htm</welcome-file>
        <welcome-file>default.jsp</welcome-file>
    </welcome-file-list>
    <servlet>
        <servlet-name>LoginServlet</servlet-name>
        <servlet-class>LoginServlet</servlet-class>
    </servlet>
    <servlet>
        <servlet-name>Dashboard</servlet-name>
        <servlet-class>Dashboard</servlet-class>
    </servlet>

```

```

<servlet>
  <servlet-name>Logout</servlet-name>
  <servlet-class>Logout</servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>Logout</servlet-name>
  <url-pattern>/logout</url-pattern>
</servlet-mapping>
<servlet-mapping>
  <servlet-name>LoginServlet</servlet-name>
  <url-pattern>/login</url-pattern>
</servlet-mapping>
<servlet-mapping>
  <servlet-name>Dashboard</servlet-name>
  <url-pattern>/dashboard</url-pattern>
</servlet-mapping>
</web-app>

```

```

<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_4_0.xsd" id="WebApp_ID"
version="4.0">
  <display-name>FilterDemo</display-name>
  <welcome-file-list>
    <welcome-file>index.html</welcome-file>
    <welcome-file>index.htm</welcome-file>
    <welcome-file>index.jsp</welcome-file>
    <welcome-file>default.html</welcome-file>
    <welcome-file>default.htm</welcome-file>
    <welcome-file>default.jsp</welcome-file>
  </welcome-file-list>

  <filter>
    <filter-name>loginFilter</filter-name>
    <filter-class>LoginFilter</filter-class>
  </filter>
  <filter-mapping>
    <filter-name>loginFilter</filter-name>
    <url-pattern>/dashboard</url-pattern>
    <url-pattern>/profile</url-pattern>
  </filter-mapping>

```

```

<servlet>
  <servlet-name>AccountDashboard</servlet-name>
  <servlet-class>AccountDashboard</servlet-class>
</servlet>
<servlet>
  <servlet-name>AccountProfile</servlet-name>
  <servlet-class>AccountProfile</servlet-class>
</servlet>
<servlet>
  <servlet-name>InfoPage</servlet-name>
  <servlet-class>InfoPage</servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>AccountDashboard</servlet-name>
  <url-pattern>/dashboard</url-pattern>
</servlet-mapping>
<servlet-mapping>
  <servlet-name>AccountProfile</servlet-name>
<url-pattern>/profile</url-pattern>
</servlet-mapping>
<servlet-mapping>
  <servlet-name>InfoPage</servlet-name>
  <url-pattern>/info</url-pattern>
</servlet-mapping>
</web-app>

```

```

<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_4_0.xsd" id="WebApp_ID"
version="4.0">
  <display-name>FormFieldsTracking</display-name>
  <welcome-file-list>
    <welcome-file>index.html</welcome-file>
    <welcome-file>index.htm</welcome-file>
    <welcome-file>index.jsp</welcome-file>
    <welcome-file>default.html</welcome-file>
    <welcome-file>default.htm</welcome-file>
    <welcome-file>default.jsp</welcome-file>
  </welcome-file-list>

  <servlet>
    <servlet-name>LoginServlet</servlet-name>
    <servlet-class>LoginServlet</servlet-class>
  </servlet>
  <servlet>
    <servlet-name>Dashboard</servlet-name>

```

```

        <servlet-class>Dashboard</servlet-class>
    </servlet>

    <servlet-mapping>
        <servlet-name>Dashboard</servlet-name>
        <url-pattern>/dashboard</url-pattern>
    </servlet-mapping>
    <servlet-mapping>
        <servlet-name>LoginServlet</servlet-name>
        <url-pattern>/login</url-pattern>
    </servlet-mapping>
</web-app>

<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_4_0.xsd" id="WebApp_ID"
version="4.0">
    <display-name>Servlet Interface</display-name>
    <welcome-file-list>
        <welcome-file>index.html</welcome-file>
        <welcome-file>index.htm</welcome-file>
        <welcome-file>index.jsp</welcome-file>
        <welcome-file>default.html</welcome-file>
        <welcome-file>default.htm</welcome-file>
        <welcome-file>default.jsp</welcome-file>
    </welcome-file-list>
    <servlet>
        <servlet-name>InterfaceDemo</servlet-name>
        <servlet-class>InterfaceDemo</servlet-class>
    </servlet>

    <servlet-mapping>
        <servlet-name>InterfaceDemo</servlet-name>
        <url-pattern>/interface</url-pattern>
    </servlet-mapping>
</web-app>

```

```

<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_4_0.xsd" id="WebApp_ID"
version="4.0">

```

```

<display-name>LoginLogout</display-name>
<welcome-file-list>
  <welcome-file>index.html</welcome-file>
  <welcome-file>index.htm</welcome-file>
  <welcome-file>index.jsp</welcome-file>
  <welcome-file>default.html</welcome-file>
  <welcome-file>default.htm</welcome-file>
  <welcome-file>default.jsp</welcome-file>
</welcome-file-list>
<servlet>
  <servlet-name>LoginServlet</servlet-name>
  <servlet-class>LoginServlet</servlet-class>
</servlet>
<servlet>
  <servlet-name>Dashboard</servlet-name>
  <servlet-class>Dashboard</servlet-class>
</servlet>
<servlet>
  <servlet-name>Logout</servlet-name>
  <servlet-class>Logout</servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>Logout</servlet-name>
  <url-pattern>/logout</url-pattern>
</servlet-mapping>
<servlet-mapping>
  <servlet-name>LoginServlet</servlet-name>
  <url-pattern>/login</url-pattern>
</servlet-mapping>
<servlet-mapping>
  <servlet-name>Dashboard</servlet-name>
  <url-pattern>/dashboard</url-pattern>
</servlet-mapping>
</web-app>

```

DB CONNECTION

```

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.SQLException;

public class DBConnection{

```

```

        private Connection connection;

        public DBConnection(String dbURL, String user, String pwd) throws ClassNotFoundException,
        SQLException{

            Class.forName("com.mysql.jdbc.Driver");

            this.connection = DriverManager.getConnection(dbURL, user, pwd);

        }

        public Connection getConnection(){

            return this.connection;

        }

        public void closeConnection() throws SQLException {

            if (this.connection != null)

                this.connection.close();

        }

    }

```

WEB.XML

```

<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_4_0.xsd" id="WebApp_ID"
version="4.0">
    <display-name>ServletDemo</display-name>
    <welcome-file-list>
        <welcome-file>index.html</welcome-file>
        <welcome-file>index.htm</welcome-file>
        <welcome-file>index.jsp</welcome-file>
        <welcome-file>default.html</welcome-file>
        <welcome-file>default.htm</welcome-file>
        <welcome-file>default.jsp</welcome-file>
    </welcome-file-list>

```

```
</welcome-file-list>

<servlet>
    <servlet-name>NameServlet</servlet-name>
    <servlet-class>NameServlet</servlet-class>
</servlet>

<servlet-mapping>
    <servlet-name>NameServlet</servlet-name>
    <url-pattern>/name</url-pattern>
</servlet-mapping>

</web-app>
```

DB OPERATIONS

```
import java.beans.Statement;

import java.io.IOException;

import java.io.InputStream;

import java.io.PrintWriter;

import java.sql.SQLException;

import java.util.Properties;


import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;


@WebServlet("/DBOperations")
```

```
public class DBOperations extends HttpServlet {

    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {

        // TODO Auto-generated method stub

    try {

        PrintWriter out = response.getWriter();

        out.println("<html><body>");

        InputStream in = getServletContext().getResourceAsStream("/WEB-INF/config.properties");
        Properties props = new Properties();
        props.load(in);

        DBConnection conn = new DBConnection(props.getProperty("url"),
props.getProperty("userid"), props.getProperty("password"));

        java.sql.Statement stmt = conn.getConnection().createStatement();

        stmt.executeUpdate("create database mydatabase");

        out.println("Created database: mydatabase<br>");

        stmt.executeUpdate("use mydatabase");

        out.println("Selected database: mydatabase<br>");

        stmt.executeUpdate("drop database mydatabase");

        stmt.close();

        out.println("Dropped database: mydatabase<br>");

    }

}
```



```

        conn.closeConnection();

        out.println("</body></html>");
        conn.closeConnection();

    } catch (ClassNotFoundException e) {
        e.printStackTrace();
    } catch (SQLException e) {
        e.printStackTrace();
    }
}

/**
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
 */
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
    // TODO Auto-generated method stub
    doGet(request, response);
}

}

```

PRODUCT DETAILS

```
import java.beans.Statement;
import java.io.IOException;
import java.io.InputStream;
import java.io.PrintWriter;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.Properties;
```

```
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
```

```
@WebServlet("/ProductDetails")
public class ProductDetails extends HttpServlet {
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        // TODO Auto-generated method stub

        try {
            PrintWriter out = response.getWriter();
            out.println("<html><body>");

            InputStream in = getServletContext().getResourceAsStream("/WEB-INF/config.properties");
            Properties props = new Properties();
            props.load(in);
```

```

        DBConnection conn = new DBConnection(props.getProperty("url"),
        props.getProperty("userid"), props.getProperty("password"));

        java.sql.Statement stmt =
        conn.getConnection().createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,
        ResultSet.CONCUR_READ_ONLY);

        stmt.executeUpdate("insert into eproduct (name, price, date_added) values ('New Product',
        17800.00, now())");

        out.println("Executed an insert operation<br>");

        stmt.executeUpdate("update eproduct set price=2000 where name = 'New Product'");
        out.println("Executed an update operation<br>");

        stmt.executeUpdate("delete from eproduct where name = 'New Product'");
        out.println("Executed a delete operation<br>");

        stmt.close();

        conn.closeConnection();

        out.println("</body></html>");
        conn.closeConnection();

    } catch (ClassNotFoundException e) {
        e.printStackTrace();
    } catch (SQLException e) {
        e.printStackTrace();
    }
}

```

```
}
```

```
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws  
ServletException, IOException {
```

```
    // TODO Auto-generated method stub
```

```
    doGet(request, response);
```

```
}
```

```
}
```