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Project-2: Retrieving the Product Details Using the Product ID.

DESCRIPTION

Project objective:

Create a servlet-based application that shows a form to enter a product ID. The product ID is then validated, and product details are retrieved from the database and displayed to the user. You need to create a product table in MySQL and prepopulate it with data. Use JDBC to do all database processing.

Background of the problem statement:

As a part of developing an e-commerce web application, the admin backend requires a module that can retrieve product information based on the product ID.

Sorcecode:

```
*****FETCH.JAVA*****
```

```
import java.beans.Statement;
```

```
import java.io.IOException;
```

```
import java.io.InputStream;
```

```
import java.io.PrintWriter;
```

```
import java.sql.Connection;
```

```
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("/search")
```

```
public class fetching extends HttpServlet {
```

```
    private static final long serialVersionUID = 1L;
```

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

```
        PrintWriter out = response.getWriter();
```

```
        Properties props = new Properties();
```

```
        response.setContentType("text/html");
```

```
        InputStream in = getServletContext().getResourceAsStream("/WEB-  
INF/application.properties");
```

```
        props.load(in);
```

```
        Connection conn = dbconn.getConnection(props);
```

```
        if (conn != null) {
```

```
            out.print("Connection is Established <br>");
```

```
            try {
```

```
                Statement stmt=(Statement) conn.createStatement();
```

```
                ResultSet rs= ((java.sql.Statement) stmt).executeQuery("select * from  
eproduct");
```

```

        while(rs.next()) {

            out.print(rs.getInt(1)+" "+rs.getString(2)+"
"+rs.getBigDecimal(3)+
            " "+rs.getTimestamp(4)+"<br>");

        }

```

```

    } catch (SQLException e) {

        // TODO Auto-generated catch block
        e.printStackTrace();

    }

```

```

    }

    else {

        out.print("Error while connecting connection");

    }

```

```

}

```

```

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

```

```

    // TODO Auto-generated method stub
    doGet(request, response);

```

```

}

```

```
}
```

```
*****DBCONN.JAVA*****
```

```
import java.sql.Connection;
```

```
import java.sql.DriverManager;
```

```
import java.sql.SQLException;
```

```
import java.util.Properties;
```

```
public class dbconn {
```

```
    public static Connection getConnection(Properties props) {
```

```
        Connection connection=null;
```

```
        try {
```

```
            //get url,username,password
```

```
            String driver= props.getProperty("driver");
```

```
            String url= props.getProperty("url");
```

```
            String username= props.getProperty("username");
```

```
            String password= props.getProperty("password");
```

```

        //to load driver
        Class.forName(driver);

        try {
            connection= DriverManager.getConnection(url, username, password);
        } catch (SQLException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }

    } catch (ClassNotFoundException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }

    return connection;
}

}

```

*****APPLICATION.PROPERTIES*****

driver=com.mysql.cj.jdbc.Driver

url=jdbc:mysql://localhost:3306/ecommerce

username=root

password=Surekha@456

*****INDEX.HTML*****

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Insert title here</title>

</head>

<body>

<form>

<form action = "search" method = " post">

Enter the product id: <input type="text" name="name">

<input type="submit" value="Search">

</form>

</body>

</html>

Output:

```
MySQL 8.0 Command Line Client
Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 18
Server version: 8.0.28 MySQL Community Server - GPL

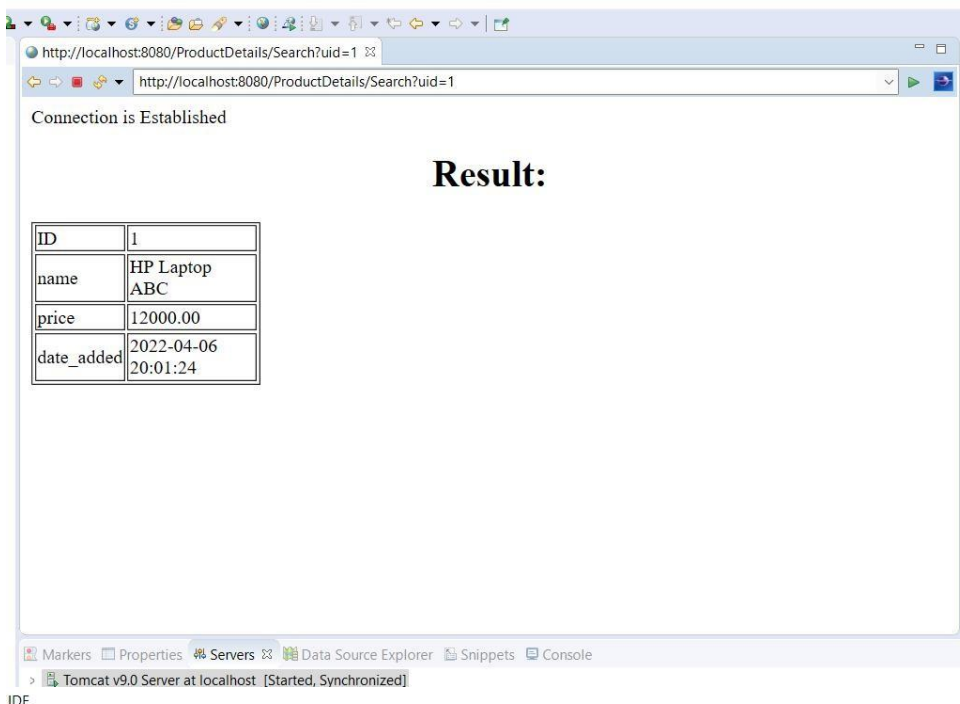
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owners.

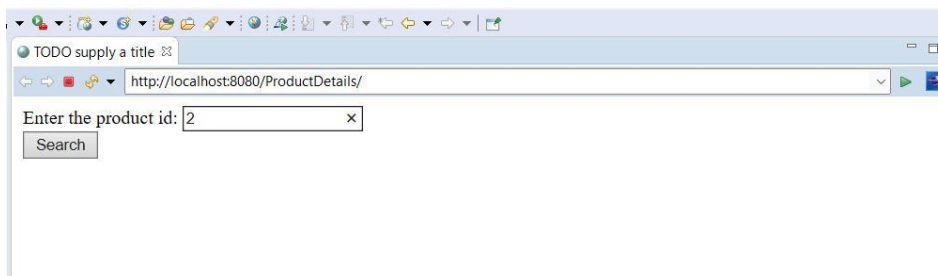
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

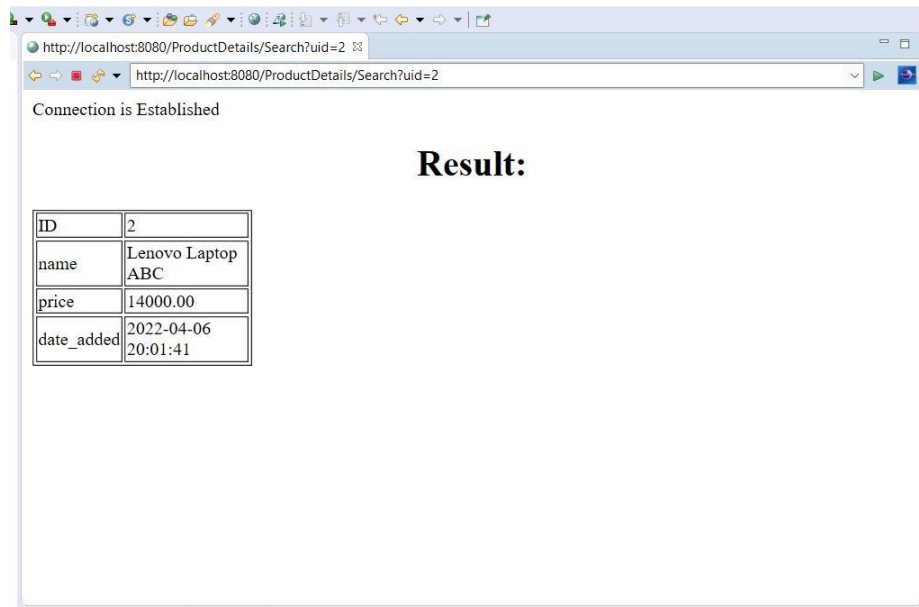
mysql> use ecommerce;
Database changed
mysql> select * from eproduct;
+-----+-----+-----+-----+
| ID | name          | price  | date_added |
+-----+-----+-----+-----+
| 1  | HP Laptop ABC | 12000.00 | 2022-04-06 20:01:24 |
| 2  | Lenovo Laptop ABC | 14000.00 | 2022-04-06 20:01:41 |
| 3  | DELL Laptop ABC | 14000.00 | 2022-04-06 20:01:53 |
| 4  | ACER Laptop ABC | 20000.00 | 2022-04-06 20:02:10 |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql>
```

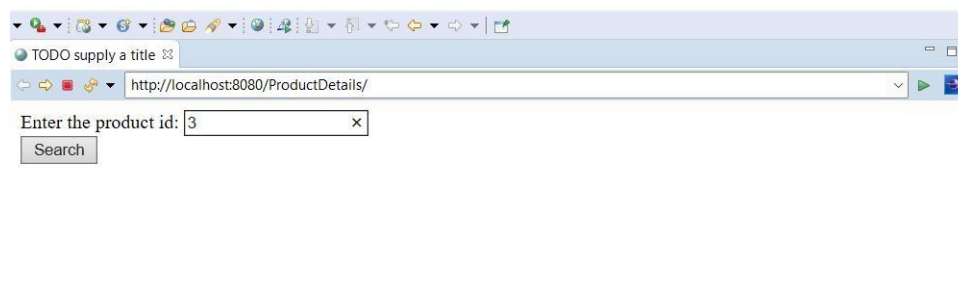


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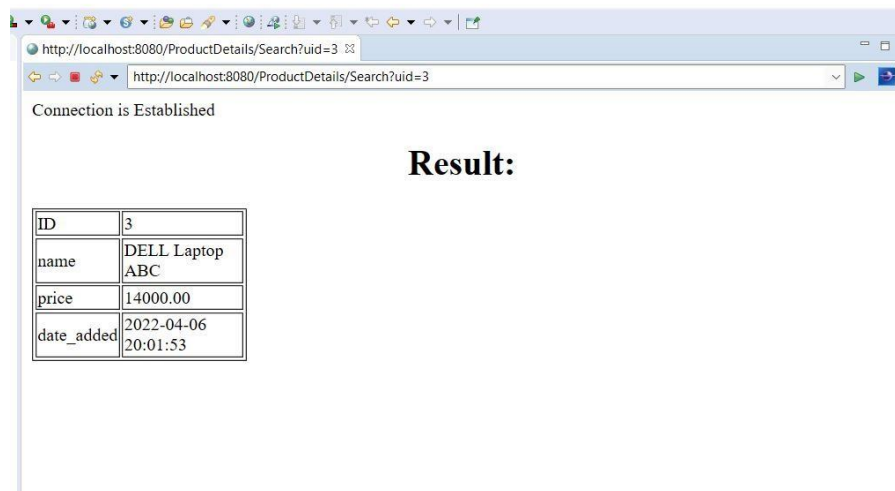




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