

Source Code: Retrieving the Product Details

Index.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Product Search</title>
</head>
<body>
  <h1>Product Search</h1>
  <form action="Productservlet" method="post">
    Product ID: <input type="text" name="productId">
    <input type="submit" value="Search">
  </form>
</body>
</html>
```

Productservlet.java

```
package retrievingProductDetails;

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.*;

/**
 * Servlet implementation class Productservlet
 */
@WebServlet("/Productservlet")
public class Productservlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public Productservlet() {
        super();
        // TODO Auto-generated constructor stub
    }
}
```

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

    response.setContentType("text/html");
    PrintWriter out = response.getWriter();

    String productId = request.getParameter("productId");

    Connection conn = null;
    PreparedStatement pstmt = null;
    ResultSet rs = null;

    try {
        // JDBC connection setup
        Class.forName("com.mysql.jdbc.Driver");
        conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/ecommerce", "root",
"Pramod@621");

        // Query to retrieve product details by ID
        String query = "SELECT * FROM product WHERE product_id=?";
        pstmt = conn.prepareStatement(query);
        pstmt.setString(1, productId);
        rs = pstmt.executeQuery();

        if (rs.next()) {
            // Product found, display details
            out.println("<h2>Product Details:</h2>");
            out.println("Product ID: " + rs.getString("product_id") + "<br>");
            out.println("Product Name: " + rs.getString("product_name")+ "<br>");
            out.println("price: " + rs.getString("price") + "<br>");
            // Add more product details here
        } else {
            out.println("<h2>Product not found.</h2>");
        }
    } catch (Exception e) {
        e.printStackTrace();
    } finally {
        try {
            if (rs != null) rs.close();
            if (pstmt != null) pstmt.close();
            if (conn != null) conn.close();
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }
}
```

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Database :

```
CREATE DATABASE ecommerce;
```

```
USE ecommerce;
```

```
CREATE TABLE product (  
    product_id INT PRIMARY KEY,  
    product_name VARCHAR(255) NOT NULL,  
    price DECIMAL(10, 2) NOT NULL  
);
```

```
INSERT INTO product (product_id, product_name, price)  
VALUES (1, 'Laptop', 999.99),  
(2, 'Smartphone', 599.99),  
(3, 'Headphones', 79.99);
```

```
SELECT * FROM product;
```