```
import java.io.IOException;
import java.io.InputStream;
import java.io.PrintWriter;
import java.math.BigDecimal;
import java.sql.CallableStatement;
import java.sql.ResultSet;
import java.sql.ResultSetMetaData;
import java.sql.SQLException;
import java.sql.Statement;
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;
import com.ecommerce.DBConnection;
/**
* Servlet implementation class ProductDetails
@WebServlet("/ProductDetails")
public class ProductDetails extends HttpServlet {
        private static final long serialVersionUID = 1L;
    /**
* @see HttpServlet#HttpServlet()
    public ProductDetails() {
        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>");
                        InputStream \underline{in} =
getServletContext().getResourceAsStream("/WEB-INF/config.properties");
                        Properties props = new Properties();
                        //props.load(in);
                        //connection information
                        DBConnection conn = new
DBConnection("jdbc:mysql://localhost:3306/ecommerce", "root", "root");
```

```
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())");
                        //query the table and get all information
                        ResultSet rst = stmt.executeQuery("select * from
pets.product");
                        //find what the user typed into the search box
                        String productSearch = request.getParameter("search");
                        //out.println(productSearch);
                        //user hasn't typed anything so display table
                        if(productSearch == null)
                               out.println("The following are the elements in the
Pets table" + "<Br>" + "<Br>");
                               //simple while loop to print all elements in table
                               while (rst.next()) {
                                       out.println(rst.getInt("ID") + ": " +
rst.getString("color") + " "
                                              + rst.getString("name") + " costs: $" +
rst.getDouble("price") + "<Br>");
                        //user typed something
                        else
                          //select the row corresponding to the id number
                          String sql res= "select * from pets.product where id=" +
productSearch;
                            ResultSet inTable = stmt.executeQuery(sql res);
                            //if not empty then print all product details
                            if(inTable.next())
                                 out.println(inTable.getInt("ID") + ": " +
inTable.getString("color") + " "
                                       + inTable.getString("name") + " costs: $" +
inTable.getDouble("price") + "<Br>");
                            //empty so print error message
                            else
                                 out.println("There was no element with product ID: "
+ productSearch + " found in the table, please try again");
                        }
                        stmt.close();
                        out.println("</body></html>");
                        conn.closeConnection();
```

```
package com.ecommerce;
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();
        }
}
```

```
Drop table pets.product;

CREATE TABLE pets.product(
id INT(11) AUTO_INCREMENT,
name VARCHAR(256),
color VARCHAR(256),
price DECIMAL(19,2),
PRIMARY KEY ('id')
);
```