Retrieving the Product Details Using the Product ID- Writeups

Project name: Retrieving the Product Details Using the Product ID

Software used: Eclipse

Language: Java, Html

In this project I have tried to get the product table data from the MySQL database and tried to display the same on webpage.

Created a servlet-based application that shows a form to enter a product ID.

Also, link to display all data from the eproduct table. After clicking on that link all products and their details will be displayed on the next webpage.

Enter ProductID in the empty box.

On next webpage details for the same product id will be displayed.

JDBC connection is established and after successful connection message is displayed.

**In the project I have used different Methods, Constructors and Classes for the implementation of the project:**

**Servlets**

Servlet technology is used to create a web application (resides at server side and generates a dynamic web page).

A web application is composed of web components like Servlet, Filter, etc. and other elements such as HTML. The web components typically execute in Web Server and respond to the HTTP request.

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.servlet.http.HttpSession;

**Java Database Connectivity with MySQL**

To connect Java application with the MySQL database, we need to follow following steps :

1. **Driver class**: The driver class for the mysql database is **com.mysql.cj.jdbc.Driver**.
2. **Connection URL:**The connection URL for the mysql database is **jdbc:mysql://localhost:3306/google**
3. **Username:**The default username for the mysql database is **root**
4. **Password: Aaru#1234567@J**

**DriverManager class**

The DriverManager class is the component of JDBC API and also a member of the*java.sql*package. The DriverManager class acts as an interface between users and drivers.

Class.forName(driver);

Connection con= DriverManager.getConnection(url, username, password);

**Statement interface**

The Statement interface provides methods to execute queries with the database. The statement interface is a factory of ResultSeti.e. it provides factory method to get the object of ResultSet.

Statement stmt=con.createStatement(ResultSet.TYPE\_SCROLL\_INSENSITIVE,ResultSet.CONCUR\_READ\_ONLY);

**ResultSet interface**

The object of ResultSet maintains a cursor pointing to a row of a table. Initially, cursor points to before the first row.

ResultSet result= stmt.executeQuery();

**PreparedStatement interface**

The PreparedStatement interface is a subinterface of Statement. It is used to execute parameterized query.

PreparedStatementstmt= con.prepareStatement("select \* from eproduct where id=?");

stmt.setInt(1, Integer.parseInt(id));

Stop

Retrived data

Start

Enter ProductID