

# **ADVANCE JAVA (3360707)**



**VVP  
ENGINEERING  
COLLEGE**

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**G2**



# V.V.P. ENGINEERING COLLEGE, RAJKOT

## Department Of Computer Engineering

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### VISION OF THE DEPARTMENT

Transforming students into globally efficient professionals with moral values.

### MISSION OF THE DEPARTMENT

To provide a strong foundation of computer engineering through effective teaching learning process.

To enhance industry linkage & alumni network for better placement and real-world exposure.

To provide various opportunities & platforms for all round development of students & encourage them for value-based practices.

## Assignment - 1

### 1. Write a TextBrowser to fetch remote web page content using URL and URLConnection class.

```
import java.io.InputStream;
import java.net.URL;
import java.net.URLConnection;
import java.util.ArrayList;
import java.util.Scanner;
import java.util.regex.Matcher;
import java.util.regex.Pattern;

public class TextBrowser {
    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);
        System.out.println("Enter url you want to search : ");

        String urls = sc.nextLine();
        try {
            // URL homepage = new URL("https://www.gtu.ac.in/");
            URL homepage = new URL(urls);
            URLConnection homepageconnection = homepage.openConnection();

            System.out.println("Content Length : " + homepageconnection.getContentLength());
            System.out.println("Content Encoding : " + homepageconnection.getContentEncoding());
            System.out.println("Content Type : " + homepageconnection.getContentType());

            InputStream connection = homepageconnection.getInputStream();

            int c;
            String content = "";
            while ((c = connection.read()) != -1) {
                content += (char) c;
            }
            // System.out.println("Content : " + content);

            ArrayList<String> result = new ArrayList<>();

            String regex = "(https?|ftp|file):/[a-zA-Z0-9+&@#/%?~_!:,;]*[a-zA-Z0-9+&@#/%?~_]";
            // String regex = "<a\\s+(?:[>]*?\\s+)?href=([\\\"])(.*?)\\1\"";
            Pattern p = Pattern.compile(regex);
            Matcher m = p.matcher(content);

            while (m.find()) {
                result.add(m.group());
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

```

    }

    for (String l : result) {
        System.out.println(l);
    }

    System.out.println("Total Links Are : " + result.size());
    connection.close();

} catch (Exception e) {
    System.out.println("Connection Error!");
}
}
}

```

## 2. Write a P2P chat application.

```

import java.io.InputStream;
import java.io.OutputStream;
import java.net.ServerSocket;
import java.net.Socket;
import java.util.Scanner;

public class Chat {
    public static void main(String[] args) throws Exception {

        Scanner in = new Scanner(System.in);

        String host = "";
        int port = 0;
        String im = "";

        System.out.println("Enter port you want to start : ");
        int serverPort = Integer.parseInt(in.nextLine());

        System.out.println("Server started Listening on port " + serverPort + "...!");
        new ChatServer(serverPort);

        while (true) {
            if (host.equals("")) {
                System.out.println("Enter cool Name : ");
                im = in.nextLine();
                host = "localhost";
                System.out.println("Enter Port to chat with : ");
                port = in.nextInt();
            }
            String msg = im + ": " + in.nextLine();
            send(msg, host, port);
        }
    }
}

```

```

    public static void send(String msg, String rhost, int rport) throws Exception {
        Socket client = new Socket(rhost, rport);
        OutputStream os = client.getOutputStream();
        os.write(msg.getBytes());
        client.close();
    }
}

class ChatServer implements Runnable {
    int port = 0;

    public ChatServer(int port) {
        this.port = port;
        Thread t = new Thread(this);
        t.start();
    }

    @Override
    public void run() {
        receive();
    }

    public void receive() {
        try {
            ServerSocket server = new ServerSocket(port);
            while (true) {
                Socket client = server.accept();
                InputStream is = client.getInputStream();
                int c;
                String msg = "";
                while ((c = is.read()) != -1) {
                    msg += (char) c;
                }
                System.out.println(msg);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}

```

### 3. Write a program to generate reverse string using Socket and ServerSocket class.

#### Client :

// First run Server.java File with any port number and use that port to connect with client to get Reverse String of Input.

```

import java.io.*;
import java.net.Socket;
import java.util.Scanner;

public class ReverseString {
    public static void main(String[] args) throws Exception {
        try {
            Scanner sc = new Scanner(System.in);

            System.out.print("Enter your port : ");
            int port = sc.nextInt();
            sc.nextLine();

            Socket s = new Socket("localhost", port);

            if (s.isConnected()) {
                System.out.println("Connected to Server....");
            }

            while (true) {
                System.out.print("Enter String to reverse : ");
                String inputStr = sc.nextLine();

                DataOutputStream dataOut = new DataOutputStream(s.getOutputStream());
                dataOut.writeUTF(inputStr);

                DataInputStream dataIn = new DataInputStream(s.getInputStream());
                String revStr = dataIn.readUTF();

                System.out.println("Reversed String : " + revStr);
                System.out.println();
            }
        } catch (Exception e) {
            System.out.println("Client System Error!\n" + e);
        }
    }
}

```

### Server :

// This server is for ReverseString Program.

```

import java.io.DataInputStream;
import java.io.DataOutputStream;
import java.net.ServerSocket;
import java.net.Socket;
import java.util.Scanner;

import static java.lang.Integer.parseInt;

public class Server {

```

```

public static void main(String[] args) throws Exception {
    try {
        Scanner sc = new Scanner(System.in);

        System.out.print("Enter Port Number : ");
        int port = sc.nextInt();
        sc.nextLine();

        System.out.println("Server is running ... !");
        ServerSocket ss = new ServerSocket(port);

        new ChatServers(ss.accept());

    } catch (Exception e) {
        System.out.println("Server Error : " + e);
    }
}

class ChatServers extends Thread {
    Socket s;

    public ChatServers(Socket socket) {
        s = socket;
        Thread t = new Thread(this);
        t.start();
    }

    @Override
    public void run() {
        receive();
    }

    public void receive() {
        try {
            while (true) {

                DataInputStream dataIn = new DataInputStream(s.getInputStream());
                String str = dataIn.readUTF();

                StringBuffer rev = new StringBuffer();
                rev.append(str);
                rev = rev.reverse();
                String revStr = new String(rev);

                DataOutputStream dataOut = new DataOutputStream(s.getOutputStream());
                dataOut.writeUTF(revStr);

            }
        } catch (Exception e) {
            System.out.println("Server Error \n" + e);
        }
    }
}

```

## Assignment - 2

### 4. Write a servlet controller for login module.

#### LoginController :

```

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package com.vvp.web;

import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.Cookie;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

/**
 *
 * @author Dishen Makwana
 */
public class LoginController extends HttpServlet {

    /**
     * Processes requests for both HTTP <code>GET</code> and <code>POST</code>
     * methods.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            /* TODO output your page here. You may use following sample code. */
            String uName = request.getParameter("username");
            String pwd = request.getParameter("password");
            HttpSession session = request.getSession();

            if (uName.equals("admin") && pwd.equals("12345")) {
                session.setAttribute("User", "admin");
                Cookie c = new Cookie("cookie_text", "admin");
                c.setMaxAge(60 * 60 * 24 * 15);
            }
        }
    }
}

```



```

        response.addCookie(c);

//        response.sendRedirect("table.html");
        response.sendRedirect("table.jsp");
    } else {
//        response.sendRedirect("login.html");
        response.sendRedirect("login.jsp?msg=Something is Wrong, Check you
Username and Password and Try Again.");
    }
}

}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the
left to edit the code.">
/**
 * Handles the HTTP <code>GET</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs
 * @throws IOException if an I/O error occurs
 */
@Override
protected void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    processRequest(request, response);
}

/**
 * Handles the HTTP <code>POST</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs
 * @throws IOException if an I/O error occurs
 */
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    processRequest(request, response);
}

/**
 * Returns a short description of the servlet.
 *
 * @return a String containing servlet description
 */
@Override
public String getServletInfo() {
    return "Short description";
}
}

```

## 5. Write a program to generate multiplication Table.

### TableController :

```

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package com.vvp.web;

import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

/**
 *
 * @author Dishen Makwana
 */
public class TableController extends HttpServlet {

    /**
     * Processes requests for both HTTP GET and POST
     * methods.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            HttpSession session = request.getSession();
            if (session.getAttribute("User") == null) {
                response.sendRedirect("login.html");
            } else {
                /* TODO output your page here. You may use following sample code. */
                int number = Integer.parseInt(request.getParameter("number"));
                out.println("<!DOCTYPE html>");
                out.println("<html>");
                out.println("<head>");
                out.println("<title>Servlet Multiplication</title>");
                out.println("</head>");
                out.println("<body>");
                out.println("<h1 align='center' >Generated Table</h1>");
            }
        }
    }
}

```

```

        out.println("<h3 align='center' >Number : " + number + "</h3>");

        out.println("<table align='center' border='1' >");

        for (int i = 1; i < 11; i++) {
            out.println("<tr>");
            out.println("<td>");
            out.println(" " + number + " x " + i + " = " + number * i + " ");
            out.println("</td>");
            out.println("</tr>");
        }
        out.println("</table>");
        out.println("</body>");
        out.println("</html>");
    }
}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the
// + sign on the left to edit the code.">
/**
 * Handles the HTTP <code>GET</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs
 * @throws IOException if an I/O error occurs
 */
@Override
protected void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    processRequest(request, response);
}

/**
 * Handles the HTTP <code>POST</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs
 * @throws IOException if an I/O error occurs
 */
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    processRequest(request, response);
}

/**
 * Returns a short description of the servlet.
 *

```

```

    * @return a String containing servlet description
    */
    @Override
    public String getServletInfo() {
        return "Short description";
    } // </editor-fold>
}

```

## 6. Write a Servlet that counts number of hits of a particular page.

```

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package com.vvp.web;

import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

/**
 *
 * @author Dishen Makwana
 */
public class Visitor extends HttpServlet {

    private int visitorCounter;

    public void init() {
        // Reset hit counter.
        visitorCounter = 0;
    }

    /**
     * Processes requests for both HTTP <code>GET</code> and <code>POST</code>
     * methods.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
    }
}

```

```

        try (PrintWriter out = response.getWriter()) {
            /* TODO output your page here. You may use following sample code. */

            visitorCounter++;
            HttpSession session = request.getSession();
            out.println("<<h3>Visitors: " + visitorCounter + "</h3>\n");
        }
    }

    // <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the
    left to edit the code.">
    /**
     * Handles the HTTP <code>GET</code> method.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        processRequest(request, response);
    }

    /**
     * Handles the HTTP <code>POST</code> method.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        processRequest(request, response);
    }

    /**
     * Returns a short description of the servlet.
     *
     * @return a String containing servlet description
     */
    @Override
    public String getServletInfo() {
        return "Short description";
    } // </editor-fold>
}

```

## Assignment - 3

### 7. Develop eCommerce application using Servlet and HTML.

#### Index.html :

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta content="width=device-width, initial-scale=1.0" name="viewport">

  <title>Ecommerce</title>
  <meta content="" name="description">
  <meta content="" name="keywords">

  <!-- Favicons -->
  <link href="assets/img/favicon.png" rel="icon">
  <link href="assets/img/apple-touch-icon.png" rel="apple-touch-icon">

  <!-- Google Fonts -->
  <link

href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,600,600i,700,700i|Roboto:300,300i,400,400i,500,500i,600,600i,700,700i|Poppins:300,300i,400,400i,500,500i,600,600i,700,700i"
  rel="stylesheet">

  <!-- Vendor CSS Files -->
  <link href="assets/vendor/aos/aos.css" rel="stylesheet">
  <link href="assets/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet">
  <link href="assets/vendor/bootstrap-icons/bootstrap-icons.css" rel="stylesheet">
  <link href="assets/vendor/boxicons/css/boxicons.min.css" rel="stylesheet">
  <link href="assets/vendor/glightbox/css/glightbox.min.css" rel="stylesheet">
  <link href="assets/vendor/swiper/swiper-bundle.min.css" rel="stylesheet">

  <!-- Template Main CSS File -->
  <link href="assets/css/style.css" rel="stylesheet">

</head>
<body>

  <!-- ===== Header ===== -->
  <header id="header" class="d-flex align-items-center">
    <div class="container d-flex align-items-center justify-content-between">

      <h1 class="logo"><a href="index_1.html">DM-Mart</a></h1>
      <!-- Uncomment below if you prefer to use an image logo -->
      <a href="index_1.html" class="logo"></a>

```

```

<nav id="navbar" class="navbar">
  <ul>
    <li><a class="nav-link scrollto active" href="index_1.html">Home</a></li>
    <li><a class="nav-link scrollto " href="#portfolio">Portfolio</a></li>
    <li><a class="nav-link scrollto" href="#footer">Contact</a></li>
    <li><a class="nav-link scrollto" href="viewcart.do">View Cart</a></li>
  </ul>
  <i class="bi bi-list mobile-nav-toggle"></i>
</nav><!-- navbar -->
</div>
</header><!-- End Header -->

<main id="main">

  <!-- ===== Portfolio Section ===== -->
  <section id="portfolio" class="portfolio">
    <div class="container" data-aos="fade-up">

      <div class="section-title">
        <h2>Portfolio</h2>
        <h3>Check our <span>Portfolio</span></h3>
        <p>Ut possimus qui ut temporibus culpa velit eveniet modi omnis est adipisci expedita at
voluptas
        <div class="row" data-aos="fade-up" data-aos-delay="100">
          <div class="col-lg-12 d-flex justify-content-center">
            <ul id="portfolio-filters">
              <li data-filter="*" class="filter-active">All</li>
              <li data-filter=".filter-app">App</li>
              <li data-filter=".filter-card">Card</li>
              <li data-filter=".filter-web">Web</li>
            </ul>
          </div>
        </div>
      </div>

      <div class="row portfolio-container" data-aos="fade-up" data-aos-delay="200">
        <div class="col-lg-4 col-md-6 portfolio-item filter-app">
          
          <div class="portfolio-info">
            <h4>App 1</h4>
            <p>$ 450</p>
            <a href="assets/img/portfolio/portfolio-1.jpg" data-gallery="portfolioGallery"
              class="portfolio-lightbox preview-link" title="App 1"><i class="bx bx-plus"></i></a>
            <a href="portfolio-details.html" class="details-link" title="More Details"><i class="bx
bx-link"></i></a>
            <br>
            <form action="addtocart.do" method="get">
              <input type="number" name="qty" value="1" />

```

```

        <input type="hidden" name="pid" value="1" />
        <!--<input type="hidden" name="price" value="450" />-->
        <input type="submit" value="Add to Cart" />
    </form>
</div>
</div>

<div class="col-lg-4 col-md-6 portfolio-item filter-web">
    
    <div class="portfolio-info">
        <h4>App 2</h4>
        <p> $ 660</p>
        <a href="assets/img/portfolio/portfolio-2.jpg" data-gallery="portfolioGallery"
            class="portfolio-lightbox preview-link" title="Web 3"><i class="bx bx-plus"></i></a>
        <a href="portfolio-details.html" class="details-link" title="More Details"><i class="bx
bx-link"></i></a>
        <br>
        <form action="addtocart.do" method="get">
            <input type="number" name="qty" value="1" />
            <input type="hidden" name="pid" value="2" />
            <!--<input type="hidden" name="price" value="660" />-->
            <input type="submit" value="Add to Cart" />
        </form>
    </div>
</div>

<div class="col-lg-4 col-md-6 portfolio-item filter-app">
    
    <div class="portfolio-info">
        <h4>App 3</h4>
        <p> $ 300</p>
        <a href="assets/img/portfolio/portfolio-3.jpg" data-gallery="portfolioGallery"
            class="portfolio-lightbox preview-link" title="App 2"><i class="bx bx-plus"></i></a>
        <a href="portfolio-details.html" class="details-link" title="More Details"><i class="bx
bx-link"></i></a>
        <br>
        <form action="addtocart.do" method="post">
            <input type="number" name="qty" value="1" />
            <input type="hidden" name="pid" value="3" />
            <!--<input type="hidden" name="price" value="300" />-->
            <input type="submit" value="Add to Cart" />
        </form>
    </div>
</div>

<div class="col-lg-4 col-md-6 portfolio-item filter-card">
    
    <div class="portfolio-info">
        <h4>App 4</h4>
        <p> $ 1000</p>
        <a href="assets/img/portfolio/portfolio-4.jpg" data-gallery="portfolioGallery">

```



```

        class="portfolio-lightbox preview-link" title="Card 2"><i class="bx bx-
plus"></i></a>
        <a href="portfolio-details.html" class="details-link" title="More Details"><i class="bx
bx-link"></i></a>
        <br>
        <form action="addtocart.do" method="post">
            <input type="number" name="qty" value="1" />
            <input type="hidden" name="pid" value="4" />
            <!--<input type="hidden" name="price" value="1000" />-->
            <input type="submit" value="Add to Cart" />
        </form>
    </div>
</div>

<div class="col-lg-4 col-md-6 portfolio-item filter-web">
    
    <div class="portfolio-info">
        <h4>App 5</h4>
        <p> $ 840</p>
        <a href="assets/img/portfolio/portfolio-5.jpg" data-gallery="portfolioGallery"
            class="portfolio-lightbox preview-link" title="Web 2"><i class="bx bx-plus"></i></a>
        <a href="portfolio-details.html" class="details-link" title="More Details"><i class="bx
bx-link"></i></a>
        <br>
        <form action="addtocart.do" method="post">
            <input type="number" name="qty" value="1" />
            <input type="hidden" name="pid" value="5" />
            <!--<input type="hidden" name="price" value="840" />-->
            <input type="submit" value="Add to Cart" />
        </form>
    </div>
</div>

<div class="col-lg-4 col-md-6 portfolio-item filter-app">
    
    <div class="portfolio-info">
        <h4>App 6</h4>
        <p> $ 710</p>
        <a href="assets/img/portfolio/portfolio-6.jpg" data-gallery="portfolioGallery"
            class="portfolio-lightbox preview-link" title="App 3"><i class="bx bx-plus"></i></a>
        <a href="portfolio-details.html" class="details-link" title="More Details"><i class="bx
bx-link"></i></a>
        <br>
        <form action="addtocart.do" method="post">
            <input type="number" name="qty" value="1" />
            <input type="hidden" name="pid" value="6" />
            <!--<input type="hidden" name="price" value="710" />-->
            <input type="submit" value="Add to Cart" />
        </form>
    </div>
</div>

```

```

<div class="col-lg-4 col-md-6 portfolio-item filter-card">
  
  <div class="portfolio-info">
    <h4>App 7</h4>
    <p>$ 250</p>
    <a href="assets/img/portfolio/portfolio-7.jpg" data-gallery="portfolioGallery"
      class="portfolio-lightbox preview-link" title="Card 1"><i class="bx bx-
plus"></i></a>
    <a href="portfolio-details.html" class="details-link" title="More Details"><i class="bx
bx-link"></i></a>
    <br>
    <form action="addtocart.do" method="post">
      <input type="number" name="qty" value="1" />
      <input type="hidden" name="pid" value="7" />
      <!--<input type="hidden" name="price" value="250" />-->
      <input type="submit" value="Add to Cart" />
    </form>
  </div>
</div>

<div class="col-lg-4 col-md-6 portfolio-item filter-card">
  
  <div class="portfolio-info">
    <h4>App 8</h4>
    <p>$ 72</p>
    <a href="assets/img/portfolio/portfolio-8.jpg" data-gallery="portfolioGallery"
      class="portfolio-lightbox preview-link" title="Card 3"><i class="bx bx-
plus"></i></a>
    <a href="portfolio-details.html" class="details-link" title="More Details"><i class="bx
bx-link"></i></a>
    <br>
    <form action="addtocart.do" method="post">
      <input type="number" name="qty" value="1" />
      <input type="hidden" name="pid" value="8" />
      <!--<input type="hidden" name="price" value="72" />-->
      <input type="submit" value="Add to Cart" />
    </form>
  </div>
</div>

<div class="col-lg-4 col-md-6 portfolio-item filter-web">
  
  <div class="portfolio-info">
    <h4>App 9</h4>
    <p>$ 350</p>
    <a href="assets/img/portfolio/portfolio-9.jpg" data-gallery="portfolioGallery"
      class="portfolio-lightbox preview-link" title="Web 3"><i class="bx bx-plus"></i></a>
    <a href="portfolio-details.html" class="details-link" title="More Details"><i class="bx
bx-link"></i></a>
    <br>

```

```

        <form action="addtocart.do" method="post">
            <input type="number" name="qty" value="1" />
            <input type="hidden" name="pid" value="9" />
            <!--<input type="hidden" name="price" value="350" />-->
            <input type="submit" value="Add to Cart" />
        </form>
    </div>
</div>
</div>
</div>
</section><!-- End Portfolio Section -->

</main><!-- End #main -->

<!-- ===== Footer ===== -->
<footer id="footer">
    <div class="footer-newsletter">
        <div class="container">
            <div class="row justify-content-center">
                <div class="col-lg-6">
                    <h4>Login</h4>
                    <form action="elogin.do" method="post">
                        <label for="username" />Username :
                        <input type="text" name="username" />
                        <label for="password" />Password :
                        <input type="password" name="password" />
                        <input type="submit" value="Login" />
                    </form>
                </div>
            </div>
        </div>
    </div>
</div>

<!-- ===== Contact Section ===== -->
<section id="contact" class="contact">
    <div class="container" data-aos="fade-up">
        <div class="section-title">
            <h2>Contact</h2>
            <h3><span>Contact Us</span></h3>
            <p>Ut possimus qui ut temporibus culpa velit eveniet modi omnis est adipisci expedita at
voluptas
            <p>atque vitae autem.</p>
        </div>

        <div class="row" data-aos="fade-up" data-aos-delay="100">
            <div class="col-lg-6">
                <div class="info-box mb-4">
                    <i class="bx bx-map"></i>
                    <h3>Our Address</h3>
                    <p>A108 Adam Street, New York, NY 535022</p>
                </div>

```

```

</div>

<div class="col-lg-3 col-md-6">
  <div class="info-box mb-4">
    <i class="bx bx-envelope"></i>
    <h3>Email Us</h3>
    <p>contact@example.com</p>
  </div>
</div>

<div class="col-lg-3 col-md-6">
  <div class="info-box mb-4">
    <i class="bx bx-phone-call"></i>
    <h3>Call Us</h3>
    <p>+1 5589 55488 55</p>
  </div>
</div>
</div>
<div class="row" data-aos="fade-up" data-aos-delay="100">

  <div class="col-lg-6 ">
    <iframe class="mb-4 mb-lg-0"
src="https://www.google.com/maps/embed?pb=!1m14!1m8!1m3!1d12097.433213460943!2d-
74.0062269!3d40.7101282!3m2!1i1024!2i768!4f13.1!3m3!1m2!1s0x0%3A0xb89d1fe6bc49944
3!2sDowntown+Conference+Center!5e0!3m2!1smk!2sbg!4v1539943755621"
    frameborder="0" style="border:0; width: 100%; height: 384px;"
allowfullscreen></iframe>
  </div>

  <div class="col-lg-6">
    <form action="forms/contact.php" method="post" role="form" class="php-email-form">
      <div class="row">
        <div class="col form-group">
          <input type="text" name="name" class="form-control" id="name"
placeholder="Your Name" required>
        </div>
        <div class="col form-group">
          <input type="email" class="form-control" name="email" id="email"
placeholder="Your Email" required>
        </div>
      </div>
      <div class="form-group">
        <input type="text" class="form-control" name="subject" id="subject"
placeholder="Subject" required>
      </div>
      <div class="form-group">
        <textarea class="form-control" name="message" rows="5" placeholder="Message"
required></textarea>
      </div>
      <div class="my-3">
        <div class="loading">Loading</div>
      </div>
    </form>
  </div>
</div>

```

```

        <div class="error-message"></div>
        <div class="sent-message">Your message has been sent. Thank you!</div>
    </div>
    <div class="text-center"><button type="submit">Send Message</button></div>
</form>
</div>
</div>
</div>
</section><!-- End Contact Section -->

```

```

<div class="footer-top">
<div class="container">
<div class="row">
<div class="col-lg-3 col-md-6 footer-contact">
<h3>DM-Mart</h3>
<p>
A108 Adam Street <br>
New York, NY 535022<br>
United States <br><br>
<strong>Phone:</strong> +1 5589 55488 55<br>
<strong>Email:</strong> info@example.com<br>
</p>
</div>

<div class="col-lg-3 col-md-6 footer-links">
<h4>Useful Links</h4>
<ul>
<li><i class="bx bx-chevron-right"></i> <a href="#">Home</a></li>
<li><i class="bx bx-chevron-right"></i> <a href="#">About us</a></li>
<li><i class="bx bx-chevron-right"></i> <a href="#">Services</a></li>
<li><i class="bx bx-chevron-right"></i> <a href="#">Terms of service</a></li>
<li><i class="bx bx-chevron-right"></i> <a href="#">Privacy policy</a></li>
</ul>
</div>

<div class="col-lg-3 col-md-6 footer-links">
<h4>Our Services</h4>
<ul>
<li><i class="bx bx-chevron-right"></i> <a href="#">Web Design</a></li>
<li><i class="bx bx-chevron-right"></i> <a href="#">Web Development</a></li>
<li><i class="bx bx-chevron-right"></i> <a href="#">Product Management</a></li>
<li><i class="bx bx-chevron-right"></i> <a href="#">Marketing</a></li>
<li><i class="bx bx-chevron-right"></i> <a href="#">Graphic Design</a></li>
</ul>
</div>

<div class="col-lg-3 col-md-6 footer-links">
<h4>Our Social Networks</h4>
<p>Cras fermentum odio eu feugiat lide par naso tierra videa magna derita valies</p>
<div class="social-links mt-3">
<a href="#" class="twitter"><i class="bx bxl-twitter"></i></a>

```

```

        <a href="#" class="facebook"><i class="bx bxl-facebook"></i></a>
        <a href="#" class="instagram"><i class="bx bxl-instagram"></i></a>
        <a href="#" class="google-plus"><i class="bx bxl-skype"></i></a>
        <a href="#" class="linkedin"><i class="bx bxl-linkedin"></i></a>
    </div>
</div>
</div>
</div>
</div>

<div class="container py-4">
    <div class="copyright">
        &copy; Copyright <strong><span>DM-Mart</span></strong>. All Rights Reserved.
    </div>
    <div class="credits">
        Designed by <a href="https://github.com/DishenMakwana">DISHEN MAKWANA</a>
    </div>
</div>
</footer>
<!-- End Footer -->

<div id="preloader"></div>
<a href="#" class="back-to-top d-flex align-items-center justify-content-center"><i
    class="bi bi-arrow-up-short"></i></a>

<!-- Vendor JS Files -->
<script src="assets/vendor/aos/aos.js"></script>
<script src="assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
<script src="assets/vendor/glightbox/js/glightbox.min.js"></script>
<script src="assets/vendor/isotope-layout/isotope.pkgd.min.js"></script>
<script src="assets/vendor/php-email-form/validate.js"></script>
<script src="assets/vendor/purecounter/purecounter.js"></script>
<script src="assets/vendor/swiper/swiper-bundle.min.js"></script>
<script src="assets/vendor/waypoints/noframework.waypoints.js"></script>

<!-- Template Main JS File -->
<script src="assets/js/main.js"></script>

</body>
</html>

```

## LoginForEcommerce.java :

```

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package com.vvp.web;

import java.io.IOException;

```

```

import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.Cookie;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

/**
 *
 * @author Dishen Makwana
 */
public class LoginForEcommerce extends HttpServlet {

    /**
     * Processes requests for both HTTP GET and POST
     * methods.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            /* TODO output your page here. You may use following sample code. */

            String uName = request.getParameter("username");
            String pwd = request.getParameter("password");
            HttpSession session = request.getSession();

            if (uName.equals("admin") && pwd.equals("12345")) {
                session.setAttribute("User", "admin");
                Cookie c = new Cookie("cookie_text", "admin");
                c.setMaxAge(60 * 60 * 24 * 15);
                response.addCookie(c);

                response.sendRedirect("index_1.html");
            } else {
                response.sendRedirect("index_1.html");
            }
        }
    }

    // <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the
    // + sign on the left to edit the code.">
    /**
     * Handles the HTTP GET method.
     *

```

```

    * @param request servlet request
    * @param response servlet response
    * @throws ServletException if a servlet-specific error occurs
    * @throws IOException if an I/O error occurs
    */
    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        processRequest(request, response);
    }

    /**
     * Handles the HTTP <code>POST</code> method.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        processRequest(request, response);
    }

    /**
     * Returns a short description of the servlet.
     *
     * @return a String containing servlet description
     */
    @Override
    public String getServletInfo() {
        return "Short description";
    } // </editor-fold>
}

```

## Add To Cart :

```

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package com.vvp.web;

import java.io.IOException;
import java.io.PrintWriter;
import java.util.HashMap;
import java.util.Map;
import javax.servlet.ServletException;
import javax.servlet.http.Cookie;

```



```

import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

/**
 *
 * @author Dishen Makwana
 */
public class AddCart extends HttpServlet {

    /**
     * Processes requests for both HTTP <code>GET</code> and <code>POST</code>
     * methods.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            /* TODO output your page here. You may use following sample code. */

            HttpSession session = request.getSession();
            int productId = Integer.parseInt(request.getParameter("pid"));
            int qty = Integer.parseInt(request.getParameter("qty"));

            // Price Store at Server side
            double priceProduct[] = {450, 660, 300, 1000, 840, 710, 250, 72, 350};
            double price = 0.0;
            for (int i = 0; i < priceProduct.length; i++) {
                if ((productId - 1) == i) {
                    price = priceProduct[i];
                }
            }

            // Cookie
            Cookie cookies[] = request.getCookies();
            Cookie userProduct = new Cookie("productid_" + productId, "qty:" + qty);
            userProduct.setMaxAge(60 * 60 * 24 * 15); // 15 days

            Product product = new Product(qty, price);
            HashMap<Integer, Product> cartProducts = null;

            if (session.getAttribute("product") == null) {
                cartProducts = new HashMap<Integer, Product>();
                cartProducts.put(productId, product);
            } else {

```

```

        cartProducts = (HashMap<Integer, Product>) session.getAttribute("product");
        if (cartProducts.containsKey(productId)) {
            Product exProduct = cartProducts.get(productId);
            exProduct.qty += qty;
            cartProducts.replace(productId, exProduct);
        }
        else {
            cartProducts.put(productId, product);
        }
    }
    session.setAttribute("product", cartProducts);
    response.addCookie(userProduct);
    response.sendRedirect("index_1.html");
}
}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the
left to edit the code.">
/**
 * Handles the HTTP <code>GET</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs
 * @throws IOException if an I/O error occurs
 */
@Override
protected void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    processRequest(request, response);
}

/**
 * Handles the HTTP <code>POST</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs
 * @throws IOException if an I/O error occurs
 */
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    processRequest(request, response);
}

/**
 * Returns a short description of the servlet.
 *
 * @return a String containing servlet description
 */
@Override

```

```

    public String getServletInfo() {
        return "Short description";
    } // </editor-fold>
}

```

## View Cart :

```

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package com.vvp.web;

import java.io.IOException;
import java.io.PrintWriter;
import java.util.HashMap;
import java.util.Map;
import javax.servlet.ServletException;
import javax.servlet.http.Cookie;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

/**
 *
 * @author Dishen Makwana
 */
public class ViewCart extends HttpServlet {

    /**
     * Processes requests for both HTTP <code>GET</code> and <code>POST</code>
     * methods.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        double grandTotal = 0;

        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            /* TODO output your page here. You may use following sample code. */

            HttpSession session = request.getSession();
            String User = (String) session.getAttribute("User");

```

```

        HashMap<Integer, Product> cartProducts = (HashMap<Integer, Product>)
session.getAttribute("product");
        if (cartProducts == null) {
            out.println("<br><table class=\"styled-table center\">\n"
                + " <thead>\n"
                + "     <tr>\n"
                + " <th>Your cart is empty</th></tr></thead></table>");

            //          out.println("<tr><th><p style='align:right'>Checkout
(0)</p></th></tr></thead></table>");
        } else {
            //          out.println("<p style='align:right'><a href='checkout.html'>Checkout (" +
cartProducts.size() + ")</a></p>");
            out.println("<br><h1 align=\"center\">Hey " + User + ", Welcome to DM-Mart's
Shopping Cart</h1>");
            out.println("<br><table class=\"styled-table center\">\n"
                + "<thead>\n"
                + "     <tr>\n"
                + "         <th>ProductId</th>\n"
                + "         <th>Price</th>\n"
                + "         <th>Quantity</th>\n"
                + "         <th>Total Price</th>\n"
                + "     </tr>\n"
                + " </thead>");

            for (Map.Entry<Integer, Product> entry : cartProducts.entrySet()) {
                int key = entry.getKey();
                Product p = entry.getValue();

                out.println("<tbody>\n"
                    + "     <tr>");
                out.println("<td>" + key + "</td>");
                out.println("<td>" + p.price + "</td>");
                out.println("<td>" + p.qty + "</td>");
                out.println("<td>" + (p.price * p.qty) + "</td>");

                grandTotal += (p.price * p.qty);
            }
            out.println("<tr><td colspan=3 class=\"active-row\">Grand Total </td><td>" +
grandTotal + "</td></tr>\n"
        }
    }

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the
// + sign on the left to edit the code.">
/**
 * Handles the HTTP <code>GET</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs

```

```

    * @throws IOException    if an I/O error occurs
    */
    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        processRequest(request, response);
    }

    /**
     * Handles the HTTP <code>POST</code> method.
     *
     * @param request  servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException    if an I/O error occurs
     */
    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        processRequest(request, response);
    }

    /**
     * Returns a short description of the servlet.
     *
     * @return a String containing servlet description
     */
    @Override
    public String getServletInfo() {
        return "Short description";
    } // </editor-fold>
}

```

## Product Class :

```

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package com.vvp.web;

/**
 *
 * @author Dishen Makwana
 */
public class Product {

    int qty;
    double price;
}

```

```

public int getQty() {
    return qty;
}

public void setQty(int qty) {
    this.qty = qty;
}

public double getPrice() {
    return price;
}

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

public Product(int qty, double price) {
    this.qty = qty;
    this.price = price;
}
}

```

### Checkout.html :

```

<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="utf-8">
    <meta content="width=device-width, initial-scale=1.0" name="viewport">

    <title>Ecommerce</title>
</head>

<body>

    <!-- ===== Header ===== -->
    <header id="header" class="d-flex align-items-center">
        <div class="container d-flex align-items-center justify-content-between">

            <h1 class="logo"><a href="index_1.html">DM-Mart</a></h1>
            <!-- Uncomment below if you prefer to use an image logo -->
            <a href="index_1.html" class="logo"></a>

            <nav id="navbar" class="navbar">
                <ul>
                    <li><a class="nav-link scrollto active" href="index_1.html">Home</a></li>
                    <li><a class="nav-link scrollto " href="#portfolio">Portfolio</a></li>
                    <li><a class="nav-link scrollto" href="#footer">Contact</a></li>
                    <li><a class="nav-link scrollto" href="viewcart.do">View Cart</a></li>
                </ul>
            </nav>
        </div>
    </header>

```

```

        </ul>
        <i class="bi bi-list mobile-nav-toggle"></i>
    </nav><!-- .navbar -->

</div>
</header><!-- End Header -->

<main id="main">
    <div class="container-fluid">
        <div class="container">
            <div class="formBox">
                <form method="post" action="checkout.do">
                    <div class="row">
                        <div class="col-sm-12">
                            <h1>Contact form</h1>
                        </div>
                    </div>
                    <div class="row">
                        <div class="col-sm-6">
                            <div class="inputBox ">
                                <div class="inputText">Your Name</div>
                                <input type="text" name="party_name" class="input">
                            </div>
                        </div>
                    </div>
                    <div class="row">
                        <div class="col-sm-6">
                            <div class="inputBox">
                                <div class="inputText">Email</div>
                                <input type="text" name="email" class="input">
                            </div>
                        </div>
                    </div>
                    <div class="row">
                        <div class="col-sm-6">
                            <div class="inputBox">
                                <div class="inputText">Mobile</div>
                                <input type="text" name="contact_no" class="input">
                            </div>
                        </div>
                    </div>
                    <div class="row">
                        <div class="col-sm-6">
                            <div class="inputBox">
                                <div class="inputText">Address</div>
                                <input type="text" name="Shipping_address" class="input">
                            </div>
                        </div>
                    </div>
                </form>
            </div>
        </div>
    </main>

```

```

    </div>
    <div class="col-sm-6">
        <div class="inputBox">
            <input type="radio" name="COD" value="COD" />
            Cash on Delivery
        </div>
    </div>
</div>

<div class="row">
    <div class="col-sm-12">
        <input type="submit" name="Submit" class="button" value="Checkout">
    </div>
</div>
</form>
</div>
</div>
</div>
</main><!-- End #main -->

</body>
</html>

```

### Checkout.java :

```

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package com.vvp.web;

import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.Cookie;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

/**
 *
 * @author Dishen Makwana
 */
public class Checkout extends HttpServlet {

    /**
     * Processes requests for both HTTP <code>GET</code> and <code>POST</code>
     * methods.
     *

```



```

* @param request servlet request
* @param response servlet response
* @throws ServletException if a servlet-specific error occurs
* @throws IOException if an I/O error occurs
*/
protected void processRequest(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    response.setContentType("text/html;charset=UTF-8");
    try (PrintWriter out = response.getWriter()) {
        /* TODO output your page here. You may use following sample code. */

        HttpSession session = request.getSession();

        String name = request.getParameter("party_name");
        String contact_no = request.getParameter("contact_no");
        String address = request.getParameter("Shipping_address");
        String paymentMethod = request.getParameter("COD");

        out.println(name+"<br>");
        out.println(contact_no+"<br>");
        out.println(address+"<br>");
        out.println(paymentMethod+"<br>");

        session.removeAttribute("product");
    }
}

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the
left to edit the code.">
/**
 * Handles the HTTP <code>GET</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs
 * @throws IOException if an I/O error occurs
 */
@Override
protected void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    processRequest(request, response);
}

/**
 * Handles the HTTP <code>POST</code> method.
 *
 * @param request servlet request
 * @param response servlet response
 * @throws ServletException if a servlet-specific error occurs
 * @throws IOException if an I/O error occurs
 */

```

```

@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    processRequest(request, response);
}

/**
 * Returns a short description of the servlet.
 *
 * @return a String containing servlet description
 */
@Override
public String getServletInfo() {
    return "Short description";
} // </editor-fold>
}

```

## Web.xml :

```

<?xml version="1.0" encoding="UTF-8"?>
<web-app version="3.1" xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd">
    <servlet>
        <servlet-name>HelloWorld</servlet-name>
        <servlet-class>com.vvp.web.HelloWorld</servlet-class>
    </servlet>
    <servlet>
        <servlet-name>TableController</servlet-name>
        <servlet-class>com.vvp.web.TableController</servlet-class>
    </servlet>
    <servlet>
        <servlet-name>LoginController</servlet-name>
        <servlet-class>com.vvp.web.LoginController</servlet-class>
    </servlet>
    <servlet>
        <servlet-name>ViewCart</servlet-name>
        <servlet-class>com.vvp.web.ViewCart</servlet-class>
    </servlet>

```

```

<servlet>
  <servlet-name>Checkout</servlet-name>
  <servlet-class>com.vvp.web.Checkout</servlet-class>
</servlet>
<servlet>
  <servlet-name>AddCart</servlet-name>
  <servlet-class>com.vvp.web.AddCart</servlet-class>
</servlet>
<servlet>
  <servlet-name>Visitor</servlet-name>
  <servlet-class>com.vvp.web.Visitor</servlet-class>
</servlet>
<servlet>
  <servlet-name>LoginForEcommerce</servlet-name>
  <servlet-class>com.vvp.web.LoginForEcommerce</servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>HelloWorld</servlet-name>
  <url-pattern>/helloworld.do</url-pattern>
</servlet-mapping>
<servlet-mapping>
  <servlet-name>TableController</servlet-name>
  <url-pattern>/tablecontroller.do</url-pattern>
</servlet-mapping>
<servlet-mapping>
  <servlet-name>LoginController</servlet-name>
  <url-pattern>/login.do</url-pattern>
</servlet-mapping>
<servlet-mapping>
  <servlet-name>ViewCart</servlet-name>
  <url-pattern>/viewcart.do</url-pattern>
</servlet-mapping>
<servlet-mapping>
  <servlet-name>Checkout</servlet-name>
  <url-pattern>/checkout.do</url-pattern>

```

```
</servlet-mapping>
<servlet-mapping>
  <servlet-name>AddCart</servlet-name>
  <url-pattern>/addtocart.do</url-pattern>
</servlet-mapping>
<servlet-mapping>
  <servlet-name>Visitor</servlet-name>
  <url-pattern>/visitor.do</url-pattern>
</servlet-mapping>
<servlet-mapping>
  <servlet-name>LoginForEcommerce</servlet-name>
  <url-pattern>/ellogin.do</url-pattern>
</servlet-mapping>
<session-config>
  <session-timeout>
    30
  </session-timeout>
</session-config>
</web-app>
```

## Assignment-4

### 1. Design JSP page for user signup.

```

<%@page import="java.sql.PreparedStatement"%>
<%@page import="java.sql.ResultSet"%>
<%@page import="java.sql.Statement"%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>

<%@include file="ecomHeader.jsp" %>
<title>Signup Page</title>
<link rel="stylesheet" href="css/loginstyle.css" />
</head>
<%
    Statement st = null;
    ResultSet rs = null;
    PreparedStatement prst = null;
%>
<%@include file="connectionDB.jsp" %>
<body>
    <!-- ===== Header ===== -->
    <header id="header" class="d-flex align-items-center">
        <div class="container d-flex align-items-center justify-content-between">
            <h1 class="logo"><a href="ecomDB.jsp">DM-Mart</a></h1>
            <!-- Uncomment below if you prefer to use an image logo -->
            <a href="ecomDB.jsp" class="logo">
                </a>
            <nav id="navbar" class="navbar">
                <ul>
                    <li><a class="nav-link scrollto" href="ecomDB.jsp">Home</a></li>
                    <li><a class="nav-link scrollto" href="viewcartDB.jsp">View Cart</a></li>
                    <li><a class="nav-link scrollto" href="elginDB.jsp">Login</a></li>
                    <li><a class="nav-link scrollto active" href="esignupDB.jsp">Sign Up</a></li>
                </ul>
                <i class="bi bi-list mobile-nav-toggle"></i>
            </nav>
        </div>
    </header>

```

```

</nav>
<!-- navbar -->
</div>
</header>
<!-- End Header -->
<main id="main">
  <div class="content">
    <div class="container">
      <div class="row">
        <div class="col-md-6 order-md-2">
          
        </div>
        <div class="col-md-6 contents">
          <div class="row justify-content-center">
            <div class="col-md-8">
              <div class="mb-4">
                <h3>Sign In to <strong>DM Mart</strong></h3>
                <p class="mb-4"></p>
              </div>
              <form action="" method="post">
                <div class="form-group first">
                  <label for="username">Username</label>
                  <input type="text" name="username" class="form-control"
                    id="username" />
                </div>
                <div class="form-group first">
                  <label for="email">Email</label>
                  <input type="text" name="email" class="form-control"
                    id="email" />
                </div>
                <div class="form-group last mb-4">
                  <label for="password1">Password</label>
                  <input type="password" name="password1" class="form-control"
                    id="password1" />
                </div>
              </form>
            </div>
          </div>
        </div>
      </div>
    </div>
  </main>

```

```

<div class="form-group last mb-4">
  <label for="password">Confirm Password</label>
  <input type="password" name="password2" class="form-control"
    id="password2" />
</div>
<div class="d-flex mb-5 align-items-center">
  <label class="control control--checkbox mb-0">
    <span class="caption">Remember me</span>
    <input type="checkbox" checked="checked" />
    <div class="control__indicator"></div>
  </label>
  <span class="ml-auto">
    <a href="#" class="forgot-pass">Forgot Password</a></span>
</div>

<input type="submit" value="Sign Up"
  class="btn text-white btn-block btn-primary" />
<span class="d-block text-left my-4 text-muted">
  or sign in with</span>
<div class="social-login">
  <a href="#" class="facebook">
    <span class="icon-facebook mr-3"></span></a>
  <a href="#" class="twitter">
    <span class="icon-twitter mr-3"></span></a>
  <a href="#" class="google">
    <span class="icon-google mr-3"></span></a>
</div>
</form>
</div>
</div>
</div>
</div>
</div>
</main>

```

```

<%
    if (request.getParameter("username") != null) {
        if (request.getParameter("username") != null && request.getParameter("email") != null
        && request.getParameter("password1") != null && request.getParameter("password2") != null)
        {

            String userName = (String) request.getParameter("username");
            String email = (String) request.getParameter("email");
            String passWord1 = (String) request.getParameter("password1");
            String passWord2 = (String) request.getParameter("password2");
            boolean isUserExist = false;

            if (passWord1.equals(passWord2)) {

                String loginQry = "SELECT username,password FROM user where username=?";
                prst = connection.prepareStatement(loginQry);
                prst.setString(1, userName);
                rs = prst.executeQuery();

                if (rs.next()) {
                    isUserExist = true;
                }
                if (!isUserExist) {
                    String signupQry = "INSERT INTO `user` VALUES (NULL,?,?,?,?)";
                    prst = connection.prepareStatement(signupQry);
                    prst.setString(1, userName);
                    prst.setString(2, passWord1);
                    prst.setString(3, email);
                    prst.setString(4, "user");
                    prst.executeUpdate();
                }
            }
            if (isUserExist) {
                response.sendRedirect("eloginDB.jsp");
            } else {

```



```

        response.sendRedirect("esignupDB.jsp");
    }
    } else {
        response.sendRedirect("esignupDB.jsp");
    }
}
%>
<!-- End #main -->
<%@include file="ecomFooter.jsp" %>

```

## 2. Dynamic Login Controller using JDBC.

```

<%@page import="java.sql.PreparedStatement"%>
<%@page import="java.sql.ResultSet"%>
<%@page import="java.sql.Statement"%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>

<%@include file="ecomHeader.jsp" %>
<title>Login Page</title>
<link rel="stylesheet" href="css/loginstyle.css" />
</head>
<%
    Statement st = null;
    ResultSet rs = null;
    PreparedStatement prst = null;
%>
<%@include file="connectionDB.jsp" %>

<body>
    <!-- ===== Header ===== -->
    <header id="header" class="d-flex align-items-center">
        <div class="container d-flex align-items-center justify-content-between">
            <h1 class="logo"><a href="ecomDB.jsp">DM-Mart</a></h1>
            <!-- Uncomment below if you prefer to use an image logo -->
            <a href="ecomDB.jsp" class="logo"></a>

```

```

<nav id="navbar" class="navbar">
  <ul>
    <li><a class="nav-link scrollto" href="ecomDB.jsp">Home</a></li>
    <li><a class="nav-link scrollto" href="viewcartDB.jsp ">View Cart</a></li>
    <li><a class="nav-link scrollto active" href="elginDB.jsp">Login</a></li>
    <li><a class="nav-link scrollto" href="esignupDB.jsp">Sign Up</a></li>
  </ul>
  <i class="bi bi-list mobile-nav-toggle"></i>
</nav>
<!-- navbar -->
</div>
</header>
<!-- End Header -->
<main id="main">
  <div class="content">
    <div class="container">
      <div class="row">
        <div class="col-md-6 order-md-2">
          
        </div>
        <div class="col-md-6 contents">
          <div class="row justify-content-center">
            <div class="col-md-8">
              <div class="mb-4">
                <h3>Sign In to <strong>DM Mart</strong></h3>
                <p class="mb-4"></p>
              </div>
              <form action="" method="post">
                <div class="form-group first">
                  <label for="username">Username</label>
                  <input type="text" name="username" class="form-control"
                    id="username"/>
                </div>
                <div class="form-group last mb-4">
                  <label for="password">Password</label>

```

```

        <input type="password" name="password" class="form-control"
            id="password" />
    </div>
    <div class="d-flex mb-5 align-items-center">
        <label class="control control--checkbox mb-0">
            <span class="caption">Remember me</span>
            <input type="checkbox" checked="checked" />
            <div class="control__indicator"></div>
        </label>
        <span class="ml-auto"><a href="#" class="forgot-pass">
            Forgot Password</a></span>
    </div>
    <input type="submit" value="Log In"
        class="btn text-white btn-block btn-primary"/>
    <span class="d-block text-left my-4 text-muted">
        or sign in with</span>
    <div class="social-login">
        <a href="#" class="facebook">
            <span class="icon-facebook mr-3"></span></a>
        <a href="#" class="twitter">
            <span class="icon-twitter mr-3"></span></a>
        <a href="#" class="google">
            <span class="icon-google mr-3"></span></a>
    </div>
</form>
</div>
</div>
</div>
</div>
</div>
</main>
<%
    if (request.getParameter("username") != null) {

```

```

    if (request.getParameter("username") != null && request.getParameter("password") !=
null) {

        String userName = (String) request.getParameter("username");
        String passWord = (String) request.getParameter("password");

        String loginQry = "SELECT * FROM user where username=? and password=?";
        prst = connection.prepareStatement(loginQry);
        prst.setString(1, userName);
        prst.setString(2, passWord);
        rs = prst.executeQuery();

        while (rs.next()) {
            String name = rs.getString("username");
            int userId = rs.getInt("userid");
            String password = rs.getString("password");

            if (name.equals(userName) && password.equals(passWord)) {
                Cookie c = new Cookie("user_name", userName);
                c.setMaxAge(60 * 60 * 24 * 15);
                Cookie cpw = new Cookie("password", passWord);
                cpw.setMaxAge(60 * 60 * 24 * 15);
                response.addCookie(cpw);
                response.addCookie(c);

                session.setAttribute("User", userName);
                session.setAttribute("UserId", userId);
                response.sendRedirect("ecomDB.jsp");
            } else {
                response.sendRedirect("elloginDB.jsp");
            }
        }
    } else {
        response.sendRedirect("elloginDB.jsp");
    }
}

```

```

    }
%>
<!-- End #main -->
<%@include file="ecomFooter.jsp" %>

```

### 3. Implement eCommerce AdminPanel to perform Insert, Update, Delete and Search on product table pid,pname,stock,price,image.

#### adminProducts.jsp

```

<%@page import="java.sql.PreparedStatement"%>
<%@page import="java.sql.ResultSet"%>
<%@page import="java.sql.Statement"%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>

<%@include file="ecomHeader.jsp" %>
<title>Admin Products Page</title>
<link rel="stylesheet" href="css/viewcart.css">
<style>
    .searchitm{
        margin-top: 100px;
        margin-bottom: 100px;
        width:100%;
        position: absolute;
        padding: 0px 300px;
    }
</style>
</head>
<%
    Statement st = null;
    ResultSet rs = null;
    PreparedStatement prst = null;
%>
<%@include file="connectionDB.jsp" %>

```

```

<body>
  <!-- ===== Header ===== -->
  <header id="header" class="d-flex align-items-center">
    <div class="container d-flex align-items-center justify-content-between">
      <h1 class="logo"><a href="ecomDB.jsp">DM-Mart</a></h1>
      <!-- Uncomment below if you prefer to use an image logo -->
      <a href="ecomDB.jsp" class="logo"></a>
      <nav id="navbar" class="navbar">
        <ul>
          <li><a class="nav-link scrollto active" href="adminProducts.jsp">Admin
Product</a></li>
          <li><a class="nav-link scrollto " href="addProducts.jsp">Add Product</a></li>
          <li><a class="nav-link scrollto " href="elginDB.jsp">Login</a></li>
          <li><a class="nav-link scrollto " href="elginDB.jsp">Logout</a></li>
        </ul>
        <i class="bi bi-list mobile-nav-toggle"></i>
      </nav><!-- navbar -->
    </div>
  </header><!-- End Header -->
  <main id="main">
    <div class="searchitm">
      <form method="post" action="">
        Search By :&nbsp;<select name="searchby">
          <option value="pid">Product Id</option>
          <option value="pname">Product Name</option>
          <option value="stock">Stock Items</option>
          <option value="price">Price</option>
        </select>&nbsp; 
        <select name="searchopt">
          <option value="">></option>
          <option value="">=</option>
          <option value=""><></option>
          <option value="LIKE">LIKE</option>
        </select>&nbsp; 
        <input type="text" name="searchproduct" placeholder="Search item..">&nbsp; 

```

```

        <input class="btn btn-success" type="submit" name="searchbtn" value="Search">
        <input class="btn btn-dark" type="submit" name="clearbtn" value="clear">
    </form>
    <br>
</div>
<div class="table-content">
    <table class="styled-table center" style="margin-top:150px;">
        <thead>
            <tr style="text-align: center">
                <th>Product Id</th>
                <th>Product Name</th>
                <th>Product Stock</th>
                <th>Product Image</th>
                <th>Product Price</th>
                <th></th>
                <th></th>
            </tr>
        </thead>
    <%
        String where = "1=1";
        String searchbtn = request.getParameter("searchbtn");
        String clearbtn = request.getParameter("clearbtn");

        if (clearbtn != null) {
            where = "1=1";
        }
        if (searchbtn != null) {
            String searchby = (String) request.getParameter("searchby");
            String searchopt = (String) request.getParameter("searchopt");
            String val = (String) request.getParameter("searchproduct");
            if (searchopt.equals("LIKE")) {
                val = " '%" + val + "%' ";
            }
            where = searchby + " " + " " + searchopt + " " + val;
    %>

```

```

st = connection.createStatement();
rs = st.executeQuery("SELECT * FROM product_master WHERE " + where);

while (rs.next()) {
    int pid = rs.getInt("pid");
    String pname = rs.getString("pname");
    int stock = rs.getInt("stock");
    String image = rs.getString("image");
    double price = rs.getDouble("price");
%>
<tbody style="text-align: center">
    <tr>
        <td><%=pid%></td>
        <td><%=pname%></td>
        <td><%=stock%></td>
        <td>"
style="width:210px; height: 260px"></td>
        <td><%=price%></td><
    <td>
        <form action="adminChanges.jsp" method="get">
            <input type="hidden" name="pid" value="<%=pid%>" />
            <input type="hidden" name="query" value="update" />
            <input class="btn btn-dark" type="submit" value="Update" />
        </form>
    </td>
    <td>
        <form action="" method="POST">
            <input type="hidden" name="pid" value="<%=pid%>" />
            <input type="hidden" name="query" value="delete" />
            <input class="btn btn-danger" type="submit" value="Delete" />
        </form>
    </td>
</tr>
</tbody>
<% } %>

```



```

        </table>
    </div>
</main><!-- End #main -->
<%
    if (request.getParameter("query") != null) {
        if (request.getParameter("query").equals("delete")) {
            int productId = Integer.parseInt(request.getParameter("pid"));

            String deleteQry = "DELETE FROM product_master WHERE `pid`=?";
            prst = connection.prepareStatement(deleteQry);
            prst.setInt(1, productId);
            int row = prst.executeUpdate();
            response.sendRedirect("adminProducts.jsp");
        }
    }
%>
<%@include file="ecomFooter.jsp" %>

```

### adminChanges.jsp

```

<%@page import="java.sql.PreparedStatement"%>
<%@page import="java.sql.ResultSet"%>
<%@page import="java.sql.Statement"%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>

<%@include file="ecomHeader.jsp" %>
<title>Admin Update Products Page</title>
<link rel="stylesheet" href="css/checkout.css" />
</head>
<%
    Statement st = null;
    ResultSet rs = null;
    PreparedStatement prst = null;
%>
<%@include file="connectionDB.jsp" %>

```

```

<body>
  <!-- ===== Header ===== -->
  <header id="header" class="d-flex align-items-center">
    <div class="container d-flex align-items-center justify-content-between">
      <h1 class="logo"><a href="ecomDB.jsp">DM-Mart</a></h1>
      <!-- Uncomment below if you prefer to use an image logo -->
      <a href="ecomDB.jsp" class="logo"
        ></a>
      <nav id="navbar" class="navbar">
        <ul>
          <li><a class="nav-link scrollto" href="ecomDB.jsp">Home</a></li>
          <li><a class="nav-link scrollto active" href="addProducts.jsp">Admin
Page</a></li>
          <li><a class="nav-link scrollto" href="adminProducts.jsp">Admin
Product</a></li>
          <li><a class="nav-link scrollto" href="eloginDB.jsp">Login</a></li>
          <li><a class="nav-link scrollto" href="elogoutDB.jsp">Logout</a></li>
        </ul>
        <i class="bi bi-list mobile-nav-toggle"></i>
      </nav>
      <!-- .navbar -->
    </div>
  </header>
  <!-- End Header -->

  <main id="main">
    <div class="container-fluid">
      <div class="container">
        <div class="formBox">
          <form method="post" action="">
            <div class="row">
              <div class="col-sm-12">
                <h1>Product Details</h1>
              </div>
            </div>
          </form>
        </div>
      </div>
    </div>
  </main>

```

```

</div>
<%
    int productId = Integer.parseInt(request.getParameter("pid"));
    String query = (String) request.getParameter("query");

    String fetchQry = "SELECT * FROM product_master WHERE pid=?";
    prst = connection.prepareStatement(fetchQry);
    prst.setInt(1, productId);
    rs = prst.executeQuery();
    while (rs.next()) {
        int pid = rs.getInt("pid");
        String pname = rs.getString("pname");
        int stock = rs.getInt("stock");
        String image = rs.getString("image");
        double price = rs.getDouble("price");
    }
%>
<div class="row">
    <div class="col-sm-6">
        <div class="inputBox">
            <!--<div class="inputText">Product Name</div>-->
            <label for="pname" >Product Name</label>
            <input type="text" name="pname" class="input" value="<%=pname%>"/>
        </div>
    </div>
</div>
<div class="row">
    <div class="col-sm-6">
        <div class="inputBox">
            <!--<div class="inputText">Product Stock</div>-->
            <label for="stock" >Product Stock</label>
            <input type="number" name="stock" class="input" value="<%=stock%>"/>
        </div>
    </div>
</div>
<div class="row">

```

```

        <div class="col-sm-6">
            <div class="inputBox">
                <!--<div class="inputText">Product Image</div>-->
                <label for="image" >Product Image Path</label>
                <input type="text" name="image" class="input" value="<%=image%>" />
            </div>
        </div>
    </div>
    <div class="row">
        <div class="col-sm-6">
            <div class="inputBox">
                <!--<div class="inputText">Product Price</div>-->
                <label for="price" >Product Price</label>
                <input type="number" name="price" class="input" value="<%=price%>" />
            </div>
        </div>
    </div>
    <div class="row">
        <div class="col-sm-12">
            <input type="submit" name="Submit" class="button"
                value="Update Product" />
        </div>
    </div>
    <% } %>
</form>
</div>
</div>
</div>
</main>
<!-- End #main -->
<%
    if (request.getParameter("pname") != null && request.getParameter("stock") != null &&
        request.getParameter("image") != null && request.getParameter("price") != null) {

```

```

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

```

```

int stock = Integer.parseInt(request.getParameter("stock"));
String image = request.getParameter("image");
double price = Double.parseDouble(request.getParameter("price"));

String updateQry = "UPDATE `product_master` SET `pname`=?, `stock`=?, `image`=?,
`price`=? WHERE pid=?";

prst = connection.prepareStatement(updateQry);
prst.setString(1, pname);
prst.setInt(2, stock);
prst.setString(3, image);
prst.setDouble(4, price);
prst.setInt(5, productId);
int row = st.executeUpdate(updateQry);
response.sendRedirect("adminProducts.jsp");
}
%>

```

### **addProducts.jsp**

```

<%@page import="java.sql.PreparedStatement"%>
<%@page import="java.sql.ResultSet"%>
<%@page import="java.sql.Statement"%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>

<%@include file="ecomHeader.jsp" %>
<title>Admin Add Products Page</title>
<link rel="stylesheet" href="css/checkout.css" />
</head>
<%
    Statement st = null;
    ResultSet rs = null;
    PreparedStatement prst = null;
%>
<%@include file="connectionDB.jsp" %>
<body>

```

```

<!-- ===== Header ===== -->
<header id="header" class="d-flex align-items-center">
  <div class="container d-flex align-items-center justify-content-between">
    <h1 class="logo"><a href="ecomDB.jsp">DM-Mart</a></h1>
    <!-- Uncomment below if you prefer to use an image logo -->
    <a href="ecomDB.jsp" class="logo"
      ></a>
    <nav id="navbar" class="navbar">
      <ul>
        <li><a class="nav-link scrollto" href="ecomDB.jsp">Home</a></li>
        <li><a class="nav-link scrollto active" href="addProducts.jsp">Admin
Page</a></li>
        <li><a class="nav-link scrollto" href="adminProducts.jsp">Admin
Product</a></li>
        <li><a class="nav-link scrollto" href="eloginDB.jsp">Login</a></li>
        <li><a class="nav-link scrollto" href="elogoutDB.jsp">Logout</a></li>
      </ul>
      <i class="bi bi-list mobile-nav-toggle"></i>
    </nav>
    <!-- .navbar -->
  </div>
</header>
<!-- End Header -->
<main id="main">
  <div class="container-fluid">
    <div class="container">
      <div class="formBox">
        <form method="post" action="">
          <div class="row">
            <div class="col-sm-12">
              <h1>Product Details</h1>
            </div>
          </div>
          <div class="row">
            <div class="col-sm-6">

```

```

        <div class="inputBox">
            <div class="inputText">Product Name</div>
            <input type="text" name="pname" class="input" />
        </div>
    </div>
</div>
<div class="row">
    <div class="col-sm-6">
        <div class="inputBox">
            <div class="inputText">Product Stock</div>
            <input type="number" name="stock" class="input" />
        </div>
    </div>
</div>
<div class="row">
    <div class="col-sm-6">
        <div class="inputBox">
            <div class="inputText">Product Image</div>
            <input type="text" name="image" class="input" />
        </div>
    </div>
</div>
<div class="row">
    <div class="col-sm-6">
        <div class="inputBox">
            <div class="inputText">Product Price</div>
            <input type="number" name="price" class="input" />
        </div>
    </div>
</div>
<div class="row">
    <div class="col-sm-12">
        <input type="submit" name="Submit" class="button"
            value="Add Product" />
    </div>

```

```

        </div>
    </form>
</div>
</div>
</div>
</main>
<!-- End #main -->
<%
    if (request.getParameter("pname") != null && request.getParameter("stock") != null &&
        request.getParameter("image") != null && request.getParameter("price") != null) {

        String pname = request.getParameter("pname");
        int stock = Integer.parseInt(request.getParameter("stock"));
        String image = request.getParameter("image");
        double price = Double.parseDouble(request.getParameter("price"));

        String addQry = "INSERT INTO `product_master` (`pid`, `pname`, `stock`, `image`,
`price`) VALUES (NULL, ?, ?, ?, ?) ";

        prst = connection.prepareStatement(addQry);
        prst.setString(1, pname);
        prst.setInt(2, stock);
        prst.setString(3, image);
        prst.setDouble(4, price);
        int row = prst.executeUpdate();
        response.sendRedirect("addProducts.jsp");
    }
%>
<%@include file="ecomFooter.jsp" %>

```



## Assignment-5

### 1. Implement Insert, Update , Delete Search using Hibernate on product table(pid,pname,stock,price,image).

```

<%@page import="java.util.Iterator"%>
<%@page import="org.hibernate.Query"%>
<%@page import="com.vvp.web.ProductMaster"%>
<%@page import="org.hibernate.Transaction"%>
<%@page import="com.vvp.web.HUtil"%>
<%@page import="org.hibernate.Session" %>
<%@page contentType="text/html" pageEncoding="UTF-8"%>

<%@include file="ecomHeader.jsp" %>
<title>Admin Products Page</title>
<link rel="stylesheet" href="css/viewcart.css">
<style>
    .searchitm{
        margin-top: 100px;
        margin-bottom: 100px;
        width:100%;
        position: absolute;
        padding: 0px 300px;
    }
</style>
</head>
<body>
    <!-- ===== Header ===== -->
    <header id="header" class="d-flex align-items-center">
        <div class="container d-flex align-items-center justify-content-between">
            <h1 class="logo"><a href="ecomDB.jsp">DM-Mart</a></h1>
            <!-- Uncomment below if you prefer to use an image logo -->
            <a href="ecomDB.jsp" class="logo"></a>
            <nav id="navbar" class="navbar">
                <ul>

```

```

        <li><a class="nav-link scrollto active" href="adminProducts.jsp">Admin
Product</a></li>
        <li><a class="nav-link scrollto " href="addProducts.jsp">Add Product</a></li>
        <li><a class="nav-link scrollto " href="eloginDB.jsp">Login</a></li>
        <li><a class="nav-link scrollto " href="elogoutDB.jsp">Logout</a></li>
    </ul>
    <i class="bi bi-list mobile-nav-toggle"></i>
</nav><!-- navbar -->
</div>
</header><!-- End Header -->
<main id="main">
    <div class="searchitm">
        <form method="post" action="">
            Search By :&nbsp;<select name="searchby">
                <option value="pid">Product Id</option>
                <option value="pname">Product Name</option>
                <option value="stock">Stock Items</option>
                <option value="price">Price</option>
            </select>&nbsp; 
            <select name="searchopt">
                <option value="">></option>
                <option value="">=</option>
                <option value=""><<</option>
                <option value="LIKE">LIKE</option>
            </select>&nbsp; 
            <input type="text" name="searchproduct" placeholder="Search item..">&nbsp; 
            <input class="btn btn-success" type="submit" name="searchbtn" value="Search">
            <input class="btn btn-dark" type="submit" name="clearbtn" value="clear">
        </form>
        <br>
    </div>
    <div class="table-content">
        <table class="styled-table center" style="margin-top:150px;">
            <thead>
                <tr style="text-align: center">

```

```

        <th>Product Id</th>
        <th>Product Name</th>
        <th>Product Stock</th>
        <th>Product Image</th>
        <th>Product Price</th>
        <th></th>
        <th></th>
    </tr>
</thead>
<%
    String searchbtn = request.getParameter("searchbtn");
    String clearbtn = request.getParameter("clearbtn");

    Session hSession = HUtil.getSessionFactory().openSession();
    Transaction tx = hSession.beginTransaction();
    Query q = hSession.createQuery("from ProductMaster pm");

    String searchby = (String) request.getParameter("searchby");
    String searchopt = (String) request.getParameter("searchopt");
    String val = (String) request.getParameter("searchproduct");

    if (searchbtn != null) {
        q = hSession.createQuery("from ProductMaster pm where pm." + searchby + " "
+ " " + searchopt + " " + val);
    }
    if (clearbtn != null) {
        q = hSession.createQuery("from ProductMaster pm");
    }
    Iterator it = q.list().iterator();

    while (it.hasNext()) {
        ProductMaster databaseProduct = (ProductMaster) it.next();
        int pid = databaseProduct.getPid();
        String pname = databaseProduct.getPname();
        int stock = databaseProduct.getStock();

```

```

        String image = databaseProduct.getImage();
        double price = databaseProduct.getPrice();
    %>
<tbody style="text-align: center">
    <tr>
        <td><%=pid%></td>
        <td><%=pname%></td>
        <td><%=stock%></td>
        <td>"
style="width:210px; height: 260px"></td>
        <td><%=price%></td><
    <td>
        <form action="adminChanges.jsp" method="get">
            <input type="hidden" name="pid" value="<%=pid%>" />
            <input type="hidden" name="query" value="update" />
            <input class="btn btn-dark" type="submit" value="Update" />
        </form>
    </td>
    <td>
        <form action="" method="POST">
            <input type="hidden" name="pid" value="<%=pid%>" />
            <input type="hidden" name="query" value="delete" />
            <input class="btn btn-danger" type="submit" value="Delete" />
        </form>
    </td>
    </tr>
</tbody>
<% } %>
</table>
</div>
</main><!-- End #main -->
<%
    if (request.getParameter("query") != null) {
        if (request.getParameter("query").equals("delete")) {
            int productId = Integer.parseInt(request.getParameter("pid"));

```

```
ProductMaster pm = (ProductMaster)hSession.get(ProductMaster.class, productId);  
hSession.delete(pm);  
response.sendRedirect("adminProducts.jsp");  
}  
}  
%>  
<%@include file="ecomFooter.jsp" %>
```