

ACADEMIC YEAR: 2024 – 25

Name & Register No of the Candidate:						
Course Code & Title:						
Date of Issue: 16.10.2024		Date of Submission: 29.10.2024				
Year / Dept. / Sem / Section: III / / V /						
Assignment: II						
Reference(s):						
Marks Details						
Q. No	1	2	3	4	5	Total (25)
COs						
Marks Obtained						

Course In-charge

Rubrics for Assignment Evaluation

Criterion	Weightage	Exemplary (5)	Excellent (4)	Adequate (3)	Average (2)	Inadequate (1)	Marks Obtained
Relevance of Content	5	Writing shows high degree of attention to logic and reasoning of points.	Writing is logically organized with ideas and paragraphs.	Writing is coherent and logically organized.	Some points remain misplaced and stray from the topic.	Writing lacks logical organization.	
Creativeness	5	Content indicates synthesis of ideas, in depth analysis and evidences.	Content indicates original thinking and develops ideas with sufficient and firm evidence.	Content indicates thinking and reasoning applied with original thought.	Content shows average thinking and reasoning.	Shows some thinking and reasoning but most ideas are underdeveloped.	
Clarity of content	5	Reveals high degree of critical thinking	Critical thinking is weaved into points	Some critical thinking is present	Critical thinking lacks detailed development.	Ideas are vague with little evidence of critical thinking.	
Grammar & Style	5	Creative use of sentence structure	Excellent use of sentence structure	Adequate use of sentence structure	Average use of sentence structure	Inadequate use of sentence structure	
References	5	Adequate, complete and standard references	Adequate and complete references but substandard	Adequate but substandard and incomplete references	Adequate and incomplete references	Inadequate and incomplete references	
Total Marks (out of 25)							

Signature of the Evaluator with date

Login page:

Gadget Galaxy
Admin Login

Username

Password

Login

Gadget Galaxy
Admin Login

Username

Password

Login

HomePage:

Gadget Galaxy

[Home](#) [Shop](#) [About](#) [Contact](#) [Login](#) [Register](#)

Welcome to Gadget Galaxy

Your one-stop shop for the latest gadgets and electronics.

Latest Products

Discover the newest arrivals in our store. Laptop for many type of uses that have our store more products for your choices you want. That has being latest product available on store.

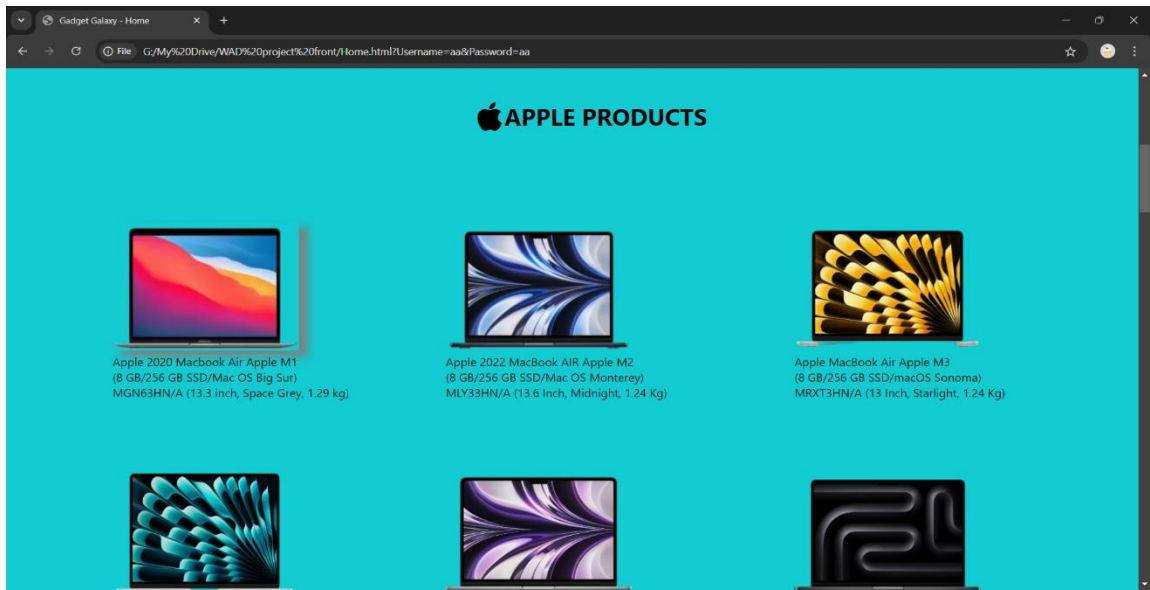
Exclusive Deals

Get the best prices on top-rated gadgets. More Discount in our Store Shop top-rated gadgets at unbeatable prices! Get exclusive discounts and special offers in our store today. Don't miss out—limited stock available!

Fast Shipping

Enjoy fast and reliable shipping on all orders. That has being more time to save your Time

Product Page:



Manage product:

Dashboard	Manage Products				
Manage Products	Product ID	Product Name	Price	Stock	Action
Manage Orders	1	Apple 2020 Macbook Air Apple M1 (8 GB/256 GB SSD/Mac OS Big Sur) MGN63HN/A (13.3 inch, Space Grey, 1.29 kg)	₹71,990	25	<div>Edit</div> <div>Delete</div>
Manage Users	2	Apple 2022 MacBook AIR Apple M2 (8 GB/256 GB SSD/Mac OS Monterey) MLY33HN/A (13.6 Inch, Midnight, 1.24 Kg)	₹1,09,990	50	<div>Edit</div> <div>Delete</div>
Settings	3	Apple MacBook Air Apple M3 (8 GB/256 GB SSD/macOS Sonoma) MRXT3HN/A (13 Inch, Starlight, 1.24 Kg)	₹1,05,490	50	<div>Edit</div> <div>Delete</div>
Logout	4	Apple 2023 Macbook Air Apple M2 (8 GB/512 GB SSD/macOS Ventura) MQKT3HN/A (15.3 Inch, Silver, 1.51 Kg)	₹1,15,990	50	<div>Edit</div> <div>Delete</div>
	5	Apple 2022 MacBook AIR Apple M2 (8 GB/512 GB SSD/Mac OS Monterey) MLXX3HN/A (13.6 Inch, Space Grey, 1.24 Kg)	₹96,990	50	<div>Edit</div> <div>Delete</div>
	6	Apple 2023 Macbook Pro Apple M3 Pro (18 GB/512 GB SSD/macOS Sonoma) MRX33HN/A (14 Inch, Space Black, 1.61 kg)	₹1,55,890	50	<div>Edit</div> <div>Delete</div>
	Manage Orders				
	Order ID	Customer Name	Product	Status	Action

Manage Order:

Dashboard

Manage Products

Manage Orders

Manage Users

Settings

Logout

5	Apple 2022 MacBook Air Apple M2 (8 GB/512 GB SSD/Mac OS Monterey) MLXX3HN/A (13.6 Inch, Space Grey, 1.24 Kg)	₹96,990	50	<div>Edit</div> <div>Delete</div>
6	Apple 2023 MacBook Pro Apple M3 Pro (18 GB/512 GB SSD/macOS Sonoma) MRX33HN/A (14 Inch, Space Black, 1.61 kg)	₹1,55,890	50	<div>Edit</div> <div>Delete</div>

Manage Orders

Order ID	Customer Name	Product	Status	Action
1001	John Doe	Apple 2023 MacBook Pro Apple M3 Pro (18 GB/512 GB SSD/macOS Sonoma) MRX33HN/A (14 Inch, Space Black, 1.61 kg)	Shipped	<div>View</div>
1002	Jane Smith	Apple 2023 Macbook Air Apple M2 (8 GB/512 GB SSD/macOS Ventura) MQKT3HN/A (15.3 Inch, Silver, 1.51 Kg)	Processing	<div>View</div>

Manage Users

User ID	Username	Email	Role	Action
501	john_doe	john@example.com	Admin	<div>Edit</div> <div>Delete</div>
502	jane_smith	jane@example.com	Customer	<div>Edit</div> <div>Delete</div>

Order page:

Gadget Galaxy

Home

Shop

About

Contact

Login

Register

Price:₹71,990

Specification

Sales Package

MacBook Air, 30 W USB-C Power Adapter, USB-C Charge Cable (2m), User Guide, Warranty Documents

Model Number

MGN63HN/A

Part Number

MGN63HN/A

Series

2020 Macbook Air

Color

Space Grey

Type Suitable For

Thin and Light Laptop
Processing & Multitasking

Battery Backup

Upto 15 Hours

Order Form

Full Name:

Email:

Shipping Address:

Quantity:

1

Payment Method:

Credit Card

Place Order

© 2024 Gadget Galaxy. All rights reserved.

LoginServlet.java

```
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
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;

@WebServlet("/LoginServlet")
public class LoginServlet extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        String username = request.getParameter("Username");
        String password = request.getParameter("Password");

        try (Connection conn = DatabaseConnection.getConnection()) {
            String sql = "SELECT * FROM users WHERE username = ? AND password = ?";
            PreparedStatement stmt = conn.prepareStatement(sql);
            stmt.setString(1, username);
            stmt.setString(2, password);

            ResultSet rs = stmt.executeQuery();
            PrintWriter out = response.getWriter();

            if (rs.next()) {
                // Login success: Create a session and redirect to home page
                HttpSession session = request.getSession();
                session.setAttribute("username", username);
                response.sendRedirect("Home.jsp");
            } else {
                // Login failure: Redirect to login page with an error
                response.sendRedirect("login.jsp?error=invalid");
            }
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }
}
```

HomeServlet.java

```
import java.io.IOException;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.ArrayList;
import java.util.List;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet("/products")
public class ProductServlet extends HttpServlet {

    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        List<Product> products = new ArrayList<>();

        try (Connection conn = DatabaseConnection.getConnection()) {
            String sql = "SELECT * FROM products";
            PreparedStatement stmt = conn.prepareStatement(sql);
            ResultSet rs = stmt.executeQuery();

            while (rs.next()) {
                Product product = new Product();
                product.setId(rs.getInt("id"));
                product.setName(rs.getString("name"));
                product.setPrice(rs.getDouble("price"));
                product.setDescription(rs.getString("description"));
                product.setImageUrl(rs.getString("imageUrl"));
                products.add(product);
            }
        } catch (SQLException e) {p
            e.printStackTrace();
        }

        // Set products in request scope and forward to JSP
        request.setAttribute("products", products);
        request.getRequestDispatcher("products.jsp").forward(request, response);
    }
}
```

Orderservlet.java

```
import java.io.IOException;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet("/placeOrder")
public class OrderServlet extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        String productName = "ASUS TUF Gaming F17"; // hardcoded for this example
        String customerName = request.getParameter("name");
        String email = request.getParameter("email");
        String address = request.getParameter("address");
        int quantity = Integer.parseInt(request.getParameter("quantity"));
        String paymentMethod = request.getParameter("payment");

        try (Connection conn = DatabaseConnection.getConnection()) {
            String sql = "INSERT INTO orders (product_name, customer_name, email,
shipping_address, quantity, payment_method) VALUES (?, ?, ?, ?, ?, ?)";
            PreparedStatement stmt = conn.prepareStatement(sql);
            stmt.setString(1, productName);
            stmt.setString(2, customerName);
            stmt.setString(3, email);
            stmt.setString(4, address);
            stmt.setInt(5, quantity);
            stmt.setString(6, paymentMethod);

            int rowsInserted = stmt.executeUpdate();
            if (rowsInserted > 0) {
                // Redirect to order confirmation page with success message
                response.sendRedirect("orderConfirmation.jsp?status=success");
            } else {
                response.sendRedirect("orderConfirmation.jsp?status=error");
            }
        } catch (SQLException e) {
            e.printStackTrace();
            response.sendRedirect("orderConfirmation.jsp?status=error");
        }
    }
}
```


Product Management Servlet

```
import java.io.IOException;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.ArrayList;
import java.util.List;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet("/products")
public class ProductServlet extends HttpServlet {
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        List<Product> products = new ArrayList<>();
        try (Connection conn = DatabaseConnection.getConnection()) {
            String sql = "SELECT * FROM products";
            PreparedStatement stmt = conn.prepareStatement(sql);
            ResultSet rs = stmt.executeQuery();
            while (rs.next()) {
                Product product = new Product();
                product.setId(rs.getInt("id"));
                product.setName(rs.getString("name"));
                product.setPrice(rs.getDouble("price"));
                product.setStock(rs.getInt("stock"));
                products.add(product);
            }
        } catch (SQLException e) {
            e.printStackTrace();
        }
        request.setAttribute("products", products);
        request.getRequestDispatcher("products.jsp").forward(request, response);
    }

    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        String action = request.getParameter("action");
        try (Connection conn = DatabaseConnection.getConnection()) {
            if ("add".equals(action)) {
                String name = request.getParameter("name");
                double price = Double.parseDouble(request.getParameter("price"));
                int stock = Integer.parseInt(request.getParameter("stock"));
                String sql = "INSERT INTO products (name, price, stock) VALUES (?, ?, ?)";
                PreparedStatement stmt = conn.prepareStatement(sql);
                stmt.setString(1, name);
            }
        }
    }
}
```

```

stmt.setDouble(2, price);
    stmt.setInt(3, stock);
    stmt.executeUpdate();
} else if ("delete".equals(action)) {
    int id = Integer.parseInt(request.getParameter("id"));
    String sql = "DELETE FROM products WHERE id = ?";
    PreparedStatement stmt = conn.prepareStatement(sql);
    stmt.setInt(1, id);
    stmt.executeUpdate();
}
} catch (SQLException e) {
    e.printStackTrace();
}
}
response.sendRedirect("products");
}
}

```

Order Management Servlet.java

```

import java.io.IOException;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.ArrayList;
import java.util.List;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet("/orders")
public class OrderServlet extends HttpServlet {
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
    ServletException, IOException {
        List<Order> orders = new ArrayList<>();
        try (Connection conn = DatabaseConnection.getConnection()) {
            String sql = "SELECT o.id, o.customer_name, p.name AS product, o.status FROM orders o
JOIN products p ON o.product_id = p.id";
            PreparedStatement stmt = conn.prepareStatement(sql);
            ResultSet rs = stmt.executeQuery();
            while (rs.next()) {
                Order order = new Order();
                order.setId(rs.getInt("id"));
                order.setCustomerName(rs.getString("customer_name"));
                order.setProduct(rs.getString("product"));
                order.setStatus(rs.getString("status"));
                orders.add(order);
            }
        }
    }
}

```

```

    }
    catch (SQLException e) {
        e.printStackTrace();
    }
    request.setAttribute("orders", orders);
    request.getRequestDispatcher("orders.jsp").forward(request, response);
}

```

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

```

    String action = request.getParameter("action");
    try (Connection conn = DatabaseConnection.getConnection()) {
        if ("updateStatus".equals(action)) {
            int id = Integer.parseInt(request.getParameter("id"));
            String status = request.getParameter("status");
            String sql = "UPDATE orders SET status = ? WHERE id = ?";
            PreparedStatement stmt = conn.prepareStatement(sql);
            stmt.setString(1, status);
            stmt.setInt(2, id);
            stmt.executeUpdate();
        }
    } catch (SQLException e) {
        e.printStackTrace();
    }
    response.sendRedirect("orders");
}

```

```

}

```