Web Dev Fundamental – Practical Assignment 5

Topic: How a Shop Website Works on the Internet and How It Is Hosted Online

Example Shop: Online Grocery Shop

1. What is a Shop Website

A shop website is an online platform where users can view products, select items, and buy them using the internet.

Example:

An online grocery shop where users can buy rice, vegetables, milk, etc.

2. How a Shop Website Works on the Internet

- Step 1: User Opens Website

  The user enters the website address (URL) in a browser like Chrome.

  Example: www.mygroceryshop.com

- Step 2: Browser Sends Request

  The browser sends a request through the internet to the web server the website is stored.

- Step 3: Server Responds

  The server sends back website files such as:

    1. HTML (structure)
    2. CSS (design)
    3. JavaScript (functionality)

- Step 4: Website Displayed

  The browser displays the shop website to the user.

- Step 5: User Interaction

  The user can:

1. View products
2. Add items to cart
3. Place an order
4. Make payment

3. Role of Frontend and Backend

Frontend

The frontend is what users see on the screen.

Technologies Used:

1. HTML
2. CSS
3. JavaScript

Example:

Product list, buttons, images, cart page.

Backend

The backend works behind the scenes.

Functions:

1. Store product data
2. Handle orders
3. Manage users
4. Process payments

Example:

When user clicks "Buy Now", backend stores order details.

4. Database in Shop Website

A database stores all important data.

Stored Data:

- Product details

- Prices
- User information
- Orders

Example:

MySQL stores product name, price, and stock.

5. Payment Process

When the user pays:

- Amount Payment gateway is used
- is verified
- Payment success message shown

Example:

UPI, Debit Card, Credit Card.

6. How a Shop Website is Hosted Online

- Step 1: Buy Domain Name

  A domain name is the website address.

  Example: www.mygroceryshop.com

- Step 2: Buy Hosting

  Hosting is space on a server where website files are stored.

  Example Hosting Providers:

  1. Hostinger
  2. GoDaddy
  3. Bluehost

- Step 3: Upload Website Files

  Website files are uploaded to the server using:

  1. File Manager
  2. FTP

- Step 4: Connect Domain with Hosting

The domain is linked to the hosting server so users can access the website.

7. Security in Shop Website

Security protects user data.

1. Security Features:
2. HTTPS
3. SSL Certificate
4. Secure payment gateway

8. Conclusion

A shop website works by connecting users, servers, databases, and payment systems through the internet. Hosting makes the website available online, allowing customers to shop anytime from anywhere.