

LAB#05

Basic Fundamentals of Web Development

OBJECTIVE:

Introduction to web development along with web development concepts using HTML and CSS.

```
shaheer.html U x shaheer.css U
shaheer.html > html > head > link
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Gym Management System</title>
7   <link rel="stylesheet" href="shaheer.css">
8 </head>
9 <body>
10   <header>
11     <nav>
12       <ul>
13         <li><a href="#home">Home</a></li>
14         <li><a href="#about">About Us</a></li>
15         <li><a href="#membership">Membership</a></li>
16       </ul>
17     </nav>
18   </header>
19
20   <!-- Home Section -->
```

```
shaheer.html U x shaheer.css U x
shaheer.css > footer
1 body {
2   font-family: Arial, sans-serif;
3   margin: 0;
4   padding: 0;
5   line-height: 1.6;
6 }
7
8 header {
9   background-color: #333;
10  color: #fff;
11  padding: 10px 0;
12 }
13
14 header nav ul {
15   list-style: none;
16   padding: 0;
17   margin: 0;
18   display: flex;
19   justify-content: center;
20 }
21
22 header nav ul li {
```

HTML AND CSS

OUTPUT

Home About Us Membership

Welcome to Our Gym

Your fitness journey starts here! Explore our facilities and services to achieve your health goals.

About Us

We are dedicated to providing a supportive and inspiring environment to help you achieve your fitness goals.

Membership Plans

- Basic Membership - \$20/month
- Premium Membership - \$50/month
- Personal Training - \$80/month

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LAB#04

Power Point

OBJECTIVE:

To familiarize students with essential skills for creating, editing, and enhancing PowerPoint presentations.

SLIDE 01

Understanding the Android OS

▪ Explore the Android Operating System, its architecture, and key features.

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Technology: Cyber Security



SLIDE 02

Understanding Android Architecture



Android Architecture consists of four main layers

The architecture is structured into four distinct layers: Linux Kernel, HAL, ART, and Application Framework.



Linux Kernel provides core services

It handles essential functions including security, memory management, and process management.



Hardware Abstraction Layer (HAL) bridges hardware and software

HAL allows Android to communicate effectively with device hardware, creating a seamless experience.



Android Runtime (ART) enables app execution

ART is the environment where apps run, providing necessary runtime services for performance.



Application Framework supports app development

This framework offers tools and APIs for developers to create applications that utilize device capabilities.

SLIDE 03

Understanding Android Security



Multi-layered Security Model

Android employs a **multi-layered security model** that includes application sandboxing, secure app signing, and encrypted communications.



Importance of Regular Updates

To maintain security, **regular updates** are essential, with Google providing monthly security patches to address vulnerabilities.



User Control Over Permissions

Users have **control over permissions**, allowing them to determine which apps can access specific data, enhancing security.



Safe App Development Practices

Understanding these principles empowers users and developers to create and use apps **safely and responsibly**, minimizing

SLIDE 04

1 Android powers over 70% of smartphones

As the leading mobile operating system, Android is used by a vast majority of smartphone users worldwide.

2 Versatile Applications on Android

Popular apps like WhatsApp, Instagram, and Google Maps demonstrate Android's multifaceted capabilities for users.

3 Open-Source Nature of Android

The open-source framework fosters innovation, allowing developers to create a wide range of applications.

4 Impact on Various Industries

Android influences sectors such as healthcare, education, and entertainment, showcasing its technological relevance.

Android's Dominance in Mobile OS