

HTML Concepts Used

Sl. No.	Concept Used	Description/Function
1	<!DOCTYPE html>	Defines the document type as HTML5.
2	<html lang="en">	Starts the HTML document and specifies the language as English.
3	<head>	Contains metadata, including the title and external CSS linking.
4	<meta charset="UTF-8">	Sets the character encoding for the document to UTF-8.
5	<meta name="viewport">	Ensures the webpage is responsive and adapts to different screen sizes.
6	<title>	Specifies the title of the webpage displayed in the browser tab.
7	<link rel="stylesheet">	Links an external CSS file to style the webpage.
8	<header>	Defines the header section of the webpage.
9	<nav>	Creates a navigation bar with links for navigation.
10	 and 	Creates an unordered list for navigation links.
11	<a>	Defines hyperlinks for navigation between pages.
12	<div>	Creates containers to group and structure content.
13		Embeds images in the webpage.
14	<h1>, <h2>, <h3>	Defines headings with different levels of importance.

CSS Concepts Used

Sl. No.	Concept Used	Description/Function
1	Universal Selector (*)	Resets all elements' margin, padding, and box-sizing properties.
2	body	Sets the background color and font styling for the entire page.
3	Flexbox (display: flex)	Used to create flexible and responsive layouts for the navbar and footer.
4	Positioning (fixed)	Makes the navbar fixed at the top of the page.
5	Background Styling	Applies background images and properties like no-repeat, cover, and center for the hero section.
6	Media Queries	Implements responsive design adjustments for different screen sizes.
7	Hover Effects (:hover)	Adds interactive styles when users hover over buttons or links.
8	z-index	Controls the stacking order of elements (e.g., navbar above content).
9	Dropdown Menu Styling	Styles for dropdown menus, including hover and active states.
10	Box Model (margin, padding, border, width)	Provides spacing and layout for elements.
11	Transitions (transition)	Adds smooth animations for hover effects on buttons.
12	Font Styling (font-size, font-family)	Adjusts the typography of text elements.
13	Colors (color, background-color)	Defines text and background colors.
14	Grid and Flexbox Adjustments	Aligns elements in sections like hero content and footer.

JavaScript Concepts Used

Sl. No.	Concept Used	Description/Function
1	DOMContentLoaded Event	Ensures JavaScript runs after the DOM has fully loaded.
2	querySelector	Selects elements in the DOM to apply JavaScript functionality.
3	addEventListener	Attaches event listeners to elements for user interactions (e.g., clicking dropdown or menu icon).
4	classList.toggle	Toggles classes on elements to dynamically add or remove CSS styles (e.g., showing or hiding the menu).
5	window.addEventListener	Detects clicks outside a dropdown menu to close it.
6	Dropdown Logic	Implements functionality for showing and hiding dropdown content.
7	Responsive Menu (toggleMenu)	Dynamically shows/hides navigation links on smaller screens.
8	Prevent Default (preventDefault)	Prevents default browser behavior (e.g., preventing page reload for dropdown links).