

# WEB DEVELOPMENT COURSE CONTENT

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## CSS (CASCADING STYLE SHEETS)

### 1. BASICS

- a. CSS Selectors , Combinators and Specificity
- b. How to insert CSS in Code & Comments in CSS
- c. Knowledge of Units used in CSS
- d. Colours Part I- Foreground & Background
- e. Borders & Outlines
- f. Margins & Padding
- g. Height & Width
- h. Text & Fonts
- i. Icons & Links
- j. Gradients
- k. Shadows

### 2. INTERMEDIATE

- a. Lists
- b. Tables
- c. Forms
- d. Rounded Corners
- e. Border Images
- f. Background Images
- g. Colours Part 2 – Keywords and different representations
- h. Special properties – display, max-width, position, overflow, float, opacity, !important properties.
- i. The Box Model
- j. CSS Alignment
- k. Pseudo classes and elements
- l. CSS Counters
- m. CSS Website Layout

### 3. ADVANCED

- a. Text Effects
- b. Working with Web Fonts
- c. 2D Transformations
- d. 3D Transformations
- e. Transitions
- f. Animations
- g. Tooltips
- h. Special properties – object-fit, object-position
- i. Styling Buttons
- j. Pagination
- k. Multiple columns
- l. User Interface

- m. Variables in CSS
- n. Box-Sizing
- o. Media Queries and its examples
- p. The CSS Flexbox
- q. The CSS Grid
- r. Adding responsivity to the site

PROJECTS - Navigation Bar, Dropdowns, Image Gallery, Image Sprites, Personal Portfolio etc.

## **BOOTSTRAP and FONT AWESOME**

- 1. The Bootstrap Grid
- 2. The Bootstrap Navbar
- 3. The Bootstrap Components
- 4. The Font Awesome Icons

## **JAVASCRIPT AS A FRONTEND LANGUAGE (JS - I)**

- 1. BASICS
  - a. Where and how to insert JS Code
  - b. Basic Syntax, Statements, Comments, Variables and their Output
  - c. let and const
  - d. Operators and their various types & Datatypes
  - e. JS Selection Statements
  - f. JS Conditional Statements – Loops, Break & continue
  - g. JS Functions
  - h. JS Objects
  - i. String, Math, Array, Date, Time, Random
  - j. Browser Object Model and Document Object Model
  - k. DOM Manipulation I
  - l. DOM Manipulation II - Event Handling
- 2. INTERMEDIATE
  - a. JS RegExp
  - b. This keyword
  - c. Arrow functions
  - d. Reserved Words
  - e. Debugging JS and its Performance
  - f. Important points to remember
- 3. ADVANCED
  - a. JS FUNCTIONS
  - b. JS CLASSES
  - c. JS ASYNC
  - d. JQUERY
  - e. JS AJAX
  - f. JS JSON

## **JAVASCRIPT AS A BACKEND LANGUAGE (JS-II)**

- 1. NODE JS

2. EXPRESS JS
  - a. Route handling and creation
  - b. GET POST and Other types of requests
  - c. EJS (Embedded JavaScript)
3. Using different APIs
4. Git, GitHub and Heroku
5. NO SQL VS SQL
6. SQL DATABASE – MySQL or MariaDB
  - a. C
  - b. R
  - c. U
  - d. D
7. NoSQL DATABASE - MongoDB
  - a. C
  - b. R
  - c. U
  - d. D
8. Authentication and Security
  - a. Level 1
  - b. Level 2
  - c. Level 3
  - d. Level 4
  - e. Level 5
  - f. Level 6