

# Mobile Site Development

- HTML Basics
- What is HTML?
- Editors
- Elements
- Block Elements
- Attributes
- Make a new line using HTML
- Headers & Paragraphs
- Creating hyperlinks
- Using images
- Text Formatting
- Inline styling with the styling attribute
- HTML Comments
- The most common element: `<div>`;
- Introduction to lists
- Creating Tables
- Accepting information with forms
- iFrames: pages inside pages

## Advanced HTML

- The Doctype
- What is the head section?
- Adding Additional Scripts



- Document Object Model (DOM)
- HTML Entities

## HTML5

- HTML5 Doctype
- Some New HTML5 Elements
- HTML5 Header and Footer
- Allow spellcheck and editable areas
- Using videos
- Adding audio
- Drag & drop
- User location: geolocation
- Saving information - localStorage
- Saving information - sessionStorage

## CSS Basics

- What is CSS?
- How to write CSS: syntax
- Using Style Sheets
- Using external style sheets
- Identities and classes
- Style entire elements
- Change background colours
- Setting background images
- Change text colour
- Text formatting using CSS
- Font Properties
- Text Properties
- Styling hyperlinks using CSS
- Styling lists using CSS
- Setting element width and height
- Adding borders
- Spacing: margin & padding



- Change the mouse type: cursor
- Hide, show and display elements
- Overflowing content

## CSS Advanced

- Grouping & Nesting
- Maximum & Minimum Dimensions
- Move an element from it's default position
- Relative location & layering
- Floating, Clear, Pseudos, Aligment
- Sprites: the most efficient way to load images
- Make elements translucent: opacity
- Different media types
- Style elements based on their attributes
- Browser prefixes, Overwrite all styling before-hand: !Important

## CSS3

- What is CSS3?
- Rounded borders. No images required.
- Using images in borders
- Adding shadows to elements
- Change the background image size
- Adding text shadow
- Get creative with custom fonts
- Rotate and skew elements using CSS3
- Resizing text areas

## JavaScripts Basics

- JavaScript Essentials
- JavaScript: Internal vs. External
- JavaScript comments
- `document.write();`
- Display info from the browser: `alert` & `confirm`

- Prompting these for information
- Programming fundamentals : Variables
- Add two sentences together: concatenation
- Basic math in JavaScript
- Redirecting users and opening new windows
- Creating empty hyperlinks
- String Manipulation
- Comparing variables and values
- Programming fundamentals : If...Else Statements
- Programming fundamentals : Else...If Statements
- Programming fundamentals : Switch Statements
- Programming fundamentals : Functions
- JavaScript Events
- Selecting HTML elements using getElementById()
- Escaping content
- Programming fundamentals : Arrays
- Programming fundamentals : For Loops
- Programming fundamentals : While Loops
- Programming fundamentals : Breaking Out Of Loops
- Programming fundamentals : Skipping A Loop Cycle

## PHP Basics

- What is PHP?
- Installing PHP
- Syntax & Hello World
- How to write comments in PHP
- Introduction to PHP Variables
- Strings & Concatenation
- Replace areas of a string
- Manipulate others areas of a string
- Displaying HTML entities
- PHP Lists: Arrays



- **Creating and destroying arrays :Explode & Implode**
- **Operators**
- **If....Else Statements**
- **Elseif Statements**
- **Switch Statements**
- **For Loops**
- **Break From Loops**
- **Continue,is\_array() and quotes**
- **Including Files**
- **Functions**
- **Constants.The unchangeable variable.**
- **Checking if something exists**
- **Accepting information-forms**
- **New lines are different in PHP**
- **Server date and time**
- **Quick if /else statements:Ternary logic**

## **PHP Advanced**

- **Temporarily save user information: Sessions**
- **Server super global variables are usable anywhere**
- **Save long-term user information: Cookies**
- **Uploading files**
- **Sending emails**
- **Introducing file systems and managements**
- **Creating new files**
- **Writing to existing files**
- **Read file contents**
- **Add information to a file**
- **Deleting a file**
- **All file modes**

- MySQL Database
- What is SQL?
- Setting up a Database
- Introducing phpMyAdmin
- MySQL Syntax
- Tables, Columns and Rows
- Connecting to a Database
- Creating a Table: 5 Columns and 3 Rows
- Inserting information
- Escaping information
- Get information that's stored in a database
- Selecting specific information: The WHERE clause
- Selecting specific information: The AND/OR clause
- Limiting results and ordering data
- Updating the database
- Deleting stored information

## Realtime Project Management

- Introduction
- Getting Setup with Git
- GitHub Project Repo
- Login Page and HTML Setup
- Creating a Global Config
- A lesson on safely strong passwords
- Setting up database
- Different CMS (Wordpress, Drupal, Joomla)
- Basic introduction to Laravel

Note: These are just major aspects that we will be discussing, each point will be elaborated with demonstration of tools and techniques.

