

FRONTEND DEVELOPMENT COURSE OUTLINE

TOOL USED:



WHAT YOU WILL LEARN

1. Create modern websites with HTML CSS and JavaScript
2. Develop web applications from scratch
3. Improved use of HTML CSS and JavaScript
4. Write more efficient web code

WEEK	LESSON	OUTLINE
WEEK 1	1. Intro to the web	<ul style="list-style-type: none">- The web- Clients- Servers- Browsers- Browser Usage- Client/Server
	2. HTML	<ul style="list-style-type: none">- Anatomy of a website- HTML: What is HTML- HTML: Editors- Anatomy of HTML tag

- HTML Basics
- Head and Body
- Headline
- Paragraphs
- Line breaks
- Lists
- Ordered list
- Formatted text
- Images
- Links
- Commenting in HTML
- Grouping elements
- HTML validators

3. HTML Advanced

4. Tables

- Table element
- The table caption

5. Grouping sections of a table

- Rowspan
- Colspan
- Head
- Body
- Foot

6. Forms & Form element

- Input element
- Label element

		<ul style="list-style-type: none">- Checkboxes- Radio Button- The select element- Textarea- Button element- Form processing
	7. Iframes	<ul style="list-style-type: none">- Iframe element- Iframe embeds: Maps- Iframe embeds: Calender
	8. Multimedia	<ul style="list-style-type: none">- The Object element- The Embed element- Embeds: Youtube

	9. Multimedia in HTML5	<ul style="list-style-type: none">- Video file format- The Video element- Multiple video sources- The audio element- Multiple audio sources
WEEK	LESSON	OUTLINE
WEEK 2	1. CSS	<ul style="list-style-type: none">- Anatomy of a website- What is CSS- Anatomy of CSS
	2. Where to put CSS	<ul style="list-style-type: none">- Internal (embedded)

	<ul style="list-style-type: none">- External (link)- Inline
3. Selectors	<ul style="list-style-type: none">- Types of selector- Type selector- Class selector- Id selector- Position in document- Element plus class selector- Pseudo classes- Grouping selectors
4. Naming convention	<ul style="list-style-type: none">- Comments

- Property value pairs
- Property color
- Property background color
- Finding colors
- Font-family
- Finding fonts

5. CSS3 fonts

- Property font size
- Property font-size em
- Font-size px
- Font-size (%)
- Font-style
- Font-weight
- Short hand properties

6. CSS Layout

- Height and width
- Box model
- Margin
- Auto margin
- Border
- Border thickness
- Border style
- Border color
- Padding

7. Position

- Normal
- Relative
- Absolute
- Z-index

- Float
- Clear

WEEK**LESSON****OUTLINE**

WEEK 3

1. Use of bootstrap 5
2. GIT and GITHUB

WEEK**LESSON****OUTLINE**

WEEK 4

1. Javascript

- Intro to programming
- What is programming
- Types of programming
- Machine code

- Assembly language
- High level language
- Compiled vs. Interpreted
- Language of the web
- History of JS
- What JS can do
- Statements
- Variables
- Primitive Data types
- Variables
- Primitive Data types
- Variable Names
- Expressions
- Loose Type
- Comments

- Functions
- Beware: Circular Dependencies
- Arguments
- Return Values
- Variable Scope
- Control flow + More Data Types
- Review: Terminology
- The if statement
- Comparison Operators
- Truthy vs False
- Short-Circuit Evaluation
- The if/else statement
- The if/else if/else statement
- The while loop
- The for loop

- The break statement
- JS Objects and DOM
- Objects
- Objects Access
- Changing Objects
- Array of Objects
- Objects as Arguments
- Object methods
- Built in Objects
- HTML Editors
- HTML and CSS: Review
- JS in HTML
- Changing Objects
- Array of Objects
- Objects as Arguments

- Object methods
- The DOM Tree
- DOM Inspecting
- DOM Access
- DOM Access: Easier
- DOM Access: HTML 5
- DOM Nodes: Attributes
- DOM Nodes: Styles
- DOM innerHTML
- DOM Modifying
- Animation
- The window object
- Animation in JS
- Animating styles
- Stopping an animation

- Events
- Why we need events
- Adding Events Listeners
- Event Types
- Event Properties
- Processing form input
- Waiting for window "load"
- JS Best Practices

WEEK

LESSON

OUTLINE

WEEK 5/6

MENTORSHIP

Length of Program: Six(6) weeks

Frequency of Class: 3 days per week

Class Schedule: 12pm - 2pm