

# HTML – CSS – JS – JQUERY - AJAX

## HTML5

### HTML Essentials:

1. Development Environment
2. Installing VSCode
3. Basic Tags
4. Paragraph elements
5. Heading elements
6. List Elements
7. Anchor Tags
8. Images
9. Divs and Spans
10. Comments

### HTML Forms and Tables

1. Tables: Introduction
2. TR TD and TH Tags
3. Thead, Tbody and Tfoot elements
4. Table Rowspan and Colspan
5. Forms: Introduction
6. Form Elements
7. Input types
8. Buttons
9. Radio Buttons, Checkboxes and Selects
10. Text Area

## CSS3

1. CSS: Introduction
2. Colors and Background Color Properties
3. Font Family Property
4. Font size Basics with Pixels
5. CSS Selectors
6. CSS Box Model
  - a. Padding
  - b. Margin
  - c. Display Property
7. Flexbox and Responsive CSS
  - a. Flex-Direction
  - b. Justify-content
  - c. Flex-Wrap
  - d. Align-Items
  - e. Responsive Designs and Media Queries
8. Bootstrap: A Walkthrough

# Javascript

1. Javascript: Introduction
2. Javascript Numbers
3. Javascript Variables
4. Variable Naming Conventions
5. Javascript Strings
6. Decision Making and Branching
7. Looping
8. Arrays
9. Javascript Functions
10. Document Object Model: Introduction
11. DOM Events

## JQuery & AJAX Curriculum:

### Introductory content:

- JavaScript Crash Course
- CSS Layouts
- JS Web Storage API

### JQuery:

- What is it and why use it.
- Manipulating dom using js and its comparison with JQuery
- JQuery element selectors
- JQuery traversal methods
- JQuery filtering methods
- JQuery adding, replacing and removing DOM Element
- Changing attribute and adding classes using JQuery
- Event handling in JQuery. Use click and hover events
- Handling form validation and submit even in JQuery
- Animation using JQuery
- JQuery UI

### AJAX:

- What is AJAX?
- Using AJAX with JQuery?
- Changing DOM based on AJAX request using FetchAPI
- JQuery and AJAX

### Project Walkthroughs & Assignments:

- Create todo app which listens to button click to add element to dom
- Traverse IMDB page to get a certain detail
- Form validation assignment
- Submit form after validating to server and manipulate dom to show the response message
- Create SPA which shows blogs from an API (Final Project)