

# Web Development Frontend -Curriculum

## 1.Hyper Text Markup Language (HTML)

- HTML Introduction
- HTML Getting Started
- Structure of HTML
- Basic HTML Elements
- HTML List and Link tags
- HTML Head and Meta Tags
- HTML Styling and Semantic Tags
- HTML Element Attributes
- HTML Form
- HTML Table

## 2.Cascading Style Sheets (CSS)

- Introduction to CSS
- CSS Syntax
- CSS Selectors
- CSS Color
- CSS Background
- CSS Fonts
- CSS Text
- CSS BOX MODEL
- CSS Box Model
- CSS Dimension //Not Present
- CSS Padding
- CSS Border
- CSS Margin
- CSS ADVANCED
- CSS Display
- CSS Float
- CSS Flexbox
- CSS3 FEATURES
- CSS3 Border
- CSS3 Color
- CSS3 Background
- CSS3 Gradients
- CSS3 Text Overflow
- CSS3 Drop Shadows
- CSS Responsive Web Design

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### 3.Javascript

- Introduction to Javascript
- What, Why, Where and How
- Coding with Javascript, Syntaxes
- Values, Variables, Numbers, Types and Operators
- Outputs in Javascript
- Javascript Conditional Statements
- Javascript Looping Statements
- Javascript Functions and Arrow Functions
- Data Structure : Objects and Arrays
- Javascript Events
- Javascript and Browser
- Application Cache
- Cookies
- Local Storage and Session Storage
- Inbuilt APIs
- Device Specific APIs
- Javascript JSON

### 4.jQuery

- jQuery Basics
- jQuery Introduction
- jQuery Getting Started
- jQuery Syntax
- jQuery Selectors
- jQuery Events
- jQuery Effects
- jQuery Show/Hide
- jQuery Fade
- jQuery Slide
- jQuery Animation
- jQuery Stop
- jQuery Chaining
- jQuery Callback

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### 5.Bootstrap

- Bootstrap Bascis
- Bootstrap Introduction
- Bootstrap Containers
- Bootstrap Grid System
- Bootstrap Column Layout
- Bootstrap Typography
- Bootstrap Tables
- Bootstrap Forms
- Bootstrap Buttons
- Bootstrap Images
- Bootstrap Cards
- Bootstrap Icons
- Bootstrap Navs
- Bootstrap Navbar
- Bootstrap Accordion
- Bootstrap Breadcrumbs
- Bootstrap Pagination
- Bootstrap Badges
- Bootstrap Progress Bars
- Bootstrap Spinners
- Bootstrap Advanced
- Bootstrap Modals
- Bootstrap Collapse
- Bootstrap Tooltips
- Bootstrap Popovers
- Bootstrap Alerts
- Bootstrap Carousel

# Web Development Frontend -Curriculum

## CAPSTONE PROJECTS

### 1 Create a single page Company Portfolio Website

- The Single Page Company Portfolio Website project aims to build a clean, responsive, and visually appealing web presence for businesses.
- The website will include essential sections like About, Services, Portfolio, Team, and Contact, all within a single page for a seamless browsing experience.
- Using modern front-end technologies such as HTML, CSS, and JavaScript, the project focuses on delivering an intuitive user interface with smooth navigation and animations.
- The design emphasizes quick load times and mobile responsiveness, ensuring that the website is accessible across different devices.
- This project serves as an effective digital showcase for companies, enhancing their brand image and online visibility.

### 2 Bootstrap and HTML Calculator

- This project focuses on creating a web-based calculator that offers basic arithmetic operations as well as advanced scientific functions.
- The calculator will be designed to work seamlessly on desktops, tablets, and mobile devices, using responsive web design principles.
- Technologies such as HTML, CSS, and JavaScript will be used to build the user interface, while client-side logic will handle all computational tasks.
- The project emphasizes clean code structure, interactive user experience, and precision in calculations.
- Through this endeavor, users will gain insights into developing dynamic, feature-rich web applications that are intuitive and easy to use.

### 3 Personal Expense Tracker

- The Personal Expense Tracker is a web application designed to help users efficiently manage their daily expenses.
- Built using HTML, CSS, JavaScript, jQuery, and Bootstrap 5, the application features a fully functional CRUD (Create, Read, Update, Delete) system handled entirely with JavaScript.
- Users can add new expenses, view them in a dynamic table, edit existing entries, and delete records as needed.
- The application utilizes Bootstrap for a responsive and modern UI, while jQuery enhances interactivity with smooth DOM manipulation.
- Data persistence is achieved through localStorage, allowing users to maintain their expense records across sessions without a backend database.

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## LIVE PROJECT

### 1 Build a Trello like simple Task List management System

- The objective of this project is to develop a task list management system inspired by Trello, providing users with a simple and intuitive interface for organizing tasks.
- The system will allow users to create boards, add tasks, assign priorities, and track progress with ease.
- Using drag-and-drop functionality, the application will enhance task management by making it easy to move tasks between different statuses.
- The project will utilize web technologies like HTML, CSS, JavaScript, and a backend service for data storage, ensuring smooth operation and scalability.
- This task management tool aims to improve productivity and streamline workflow for individuals and teams.