Web Development Course Syllabus

General Information: This course includes prerecorded video modules with assignments and quizzes to make the learning interactive and not one sided so that learners can get hands-on practical knowledge with theoretical parts.

Technologies include: Html, CSS, Javascript, JQuery, Firebase.

version control systems: Git, Github.
IDE: Visual Studio Code

Note: There is no prior knowledge of programming required to get started with the course,everything will be taught from basics.

Expectations and Goals after completing the course:

1. Learner will be able to design and develop websites by own from scratch.
2. Learner will Majorly get an understanding of building, Create, Read, Update, Delete (CRUD) applications and API related tasks without any framework.
3. Learner will master the basics after completion of all modules and will be able to learn Frameworks.

Day	Topic	Description
Day 1	Web Introduction & IDE	VS code installation Browser and how it works DNS and how it works Domain Name & hosting Front-End and Back-End Intro Creating first web page with boilerplate How to create an HTML document: DOCTYPE, html, head, meat, title, body
Day 2	HTML	Html Elements: paragraph, headings, inputs, img, ul, ol, li, button. Nesting in html Html attributes: img (src, width), button(disabled) common html elements: div, span, header, footer, nav, main, section. text content: h1 to h6, p, div, span, ul, ol, li. Forms: forms, input, button, label, textarea. images and links: img, a. other: br, hr.

Day 3	HTML	Block-level vs inline HTML elements (div & span) How to comment in html, using emoji in html common beginner mistake in HTML: 1. Tags/ Element names 2. Closing tags 3. Nesting 4. Single and double quotes
Day 4	HTML (project)	How to build a simple website with html: creating simple HTMl document; Build a food ordering webpage with html: 1. header 2. main 3. footer
Day 5	Assignment	
Day 6	CSS	What is CSS? Inline, Internal, External CSS Universal selectors, Id selectors, class selectors, Tag Selectors pseudo-classes and how to combine(with mini project color, height, width)
Day 7	CSS	Box Model: Padding, Border, Margin. FlexBox: flex properties: display: flex, flexdirection, justify content, align items. Grid(with mini project)
Day 8	CSS	CSS Positioning(relative, absolute) Units: (px, em, rem, vh..) css dropdowns css forms text effects: hover, after,before
Day 9	CSS	Backgrounds, Shadows, text-Effects, web fonts, CSS transitions, Animations,css Box sizing,Media queries.
Day 10	CSS	Final Project Assignment on HTML & CSS
Day 11	Assignment	Final Project Assignment Submission

Day 12	JavaScript	Js Fundamentals: Introduction, console, output, comments, variables, operators, Data Types.
Day 13	Javascript	conditional statements, Loops.
Day 14	Javascript	Variable Declarations: let, const, var. template literals
Day 15	Javascript	Js Functions and Arrow functions, Js Objects, Events
Day 16	Javascript	Strings: Methods, search, templates, numbers
Day 17	Javascript	Js Arrays: Array methods, Array sort, Array interaction, Array const
Day 18	Assignment	ASSIGNMENT - LAB
Day 19	Javascript	Object Destructuring
Day 20	Javascript	Spread and rest operators, Module import and export
Day 21	Javascript	HTML DOM: Methods, Document, Elements
Day 22	Javascript	PROJECT 1
Day 23	Javascript	PROJECT 2
Day 24	Javascript	PROJECT 3
Day 25	Assignment	ASSIGNMENT
Day 26	Javascript	Async programming: Callbacks, Asynchronous, Promises, Async/await
Day 27	JavaScript	Web Fetch Api, JSON intro, AJAX intro
Day 28	JQuery	Selectors, HTML, CSS, DOM
Day 29	Firebase	firebase intro with data fetching application and form data filling
Day 30	Github	Intro, push, pull, commit, handling repository.