**FrontEnd**

**Introduction to HTML, CSS , BootStrap**

* **Introduction to HTML**
  + What is Web?
  + HTML introduction with some important tages
  + Text Formatting and Links, Images and Media , Tables and Lists,Forms and Inputs, Meta Tags
* **Introduction to CSS**
  + CSS Basics, Box Modal, Inline, External, Internal Css
  + CSS Selecters
  + Positioning and Layout, Flexbox
  + Responsive Design,
* **Introduction to Bootstrap**
  + CDN
* **Project:** Create a simple website with multiple pages and navigation.

**Introduction to Javascript**

* JavaScript fundamentals, variables, constants, operators.
* Control structures, arrays, objects, ES6 features (let, const, arrow functions)
* Functions , Arrow functions , Higher order Function
* Rest and Spread operators
* Return keyword
* DOM manipulation
* hoisting, closure, promises, callbacks, async/await, try catch ,.then.catch,fetch
* filter, Map, Reduce ,for loop, while loop, localStorage,
* **7 dom projects**

**Introduction to Nextjs**

* Single Page Application, Client side rendering ,Server side rendering
* Hooks (useState, useEffect)
* Introduction ,File-based routing, dynamic routes.
* Virtual DOM, JSX, tailwind,
* Layouts, templates, and middleware
* Server-side rendering (SSR) vs Static site generation (SSG), Server-side rendering vs client-side rendering.  (optional)
* Building REST API and Connecting to databases  (optional)
* **Project:** CRUD application using nextjs. (optional)