

A circular profile picture of a young man with dark hair and glasses, wearing a white shirt. Below the image is a blue LinkedIn icon.

Santosh Kumar Mishra
@iamsantoshmishra

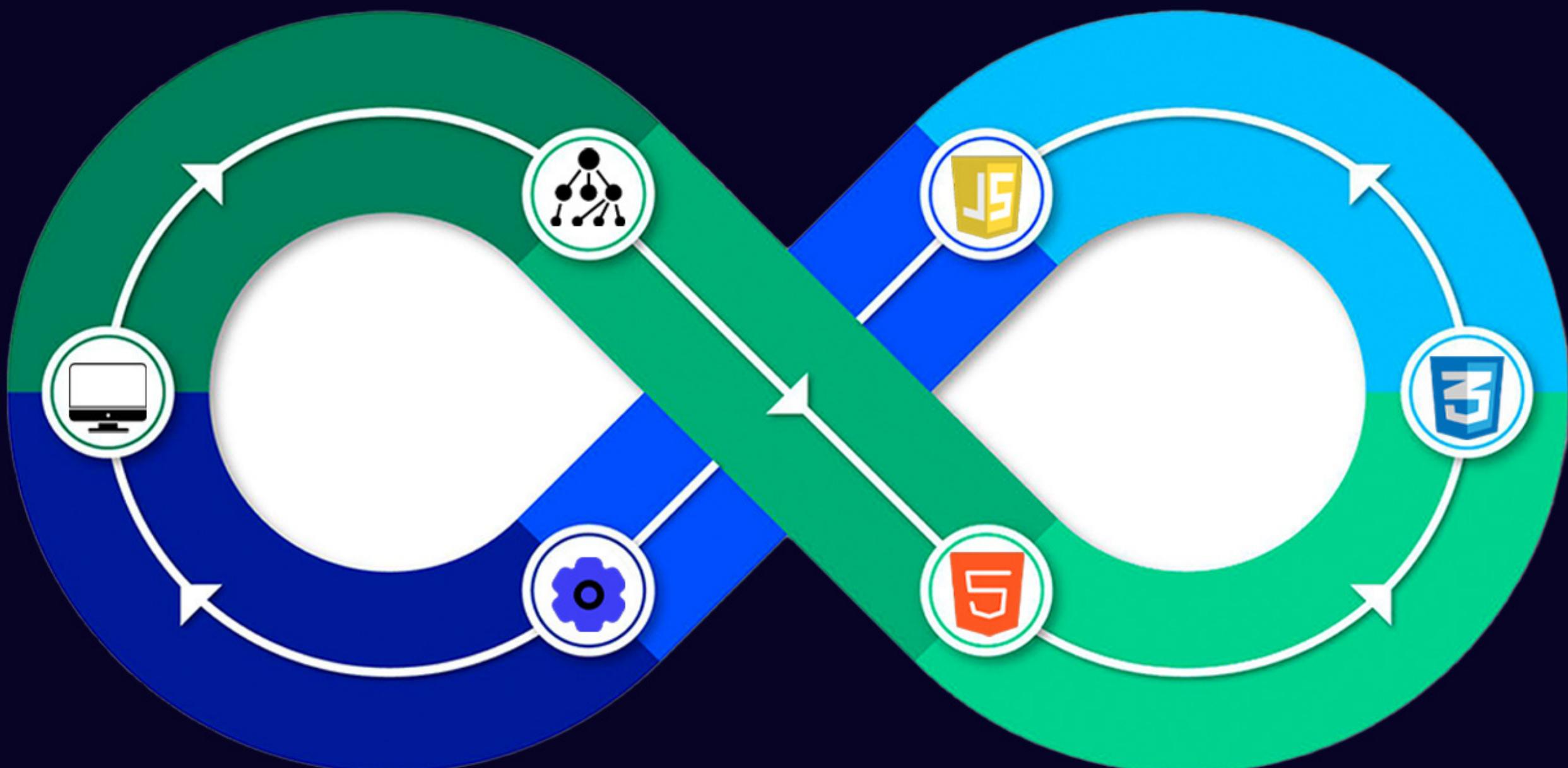
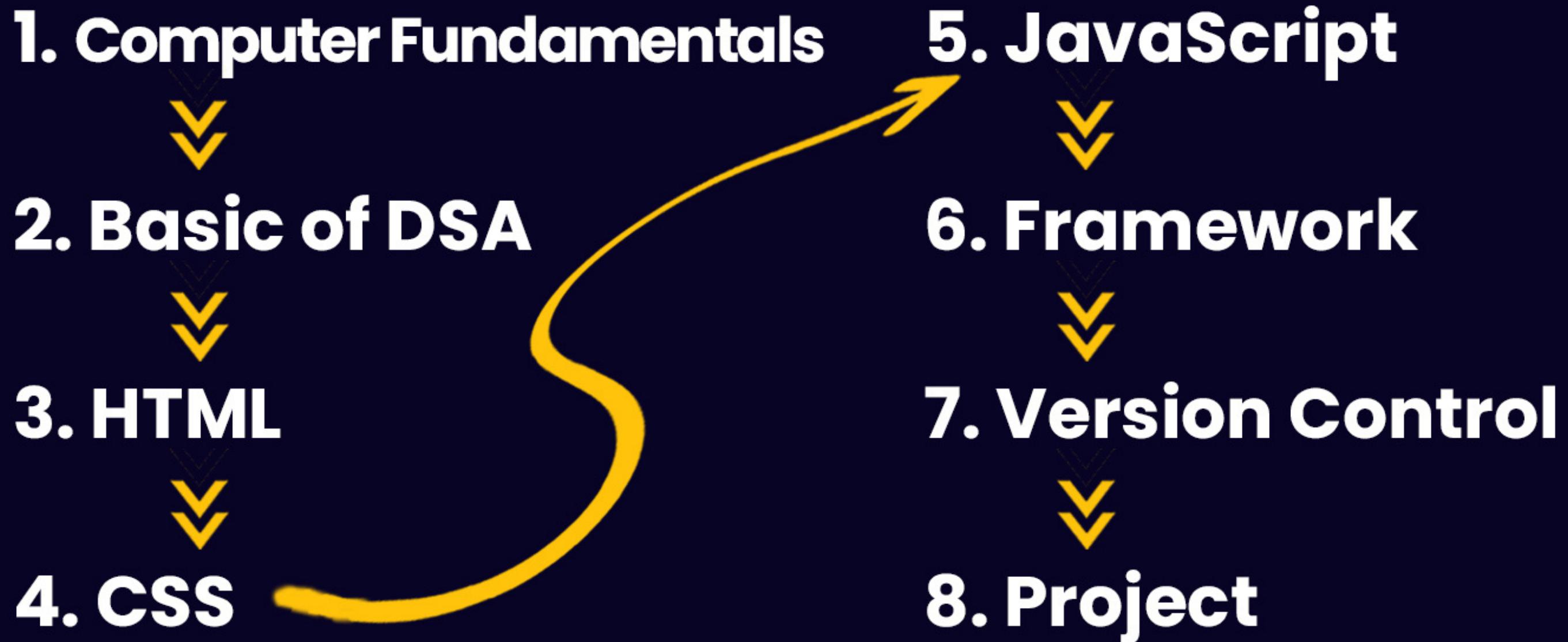


FRONTEND DEVELOPER

Complete RoadMap



RoadMap Process





1. Computer Fundamentals

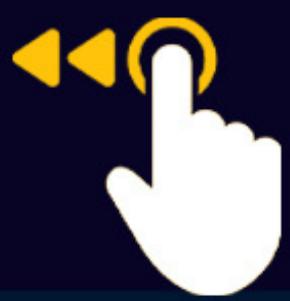
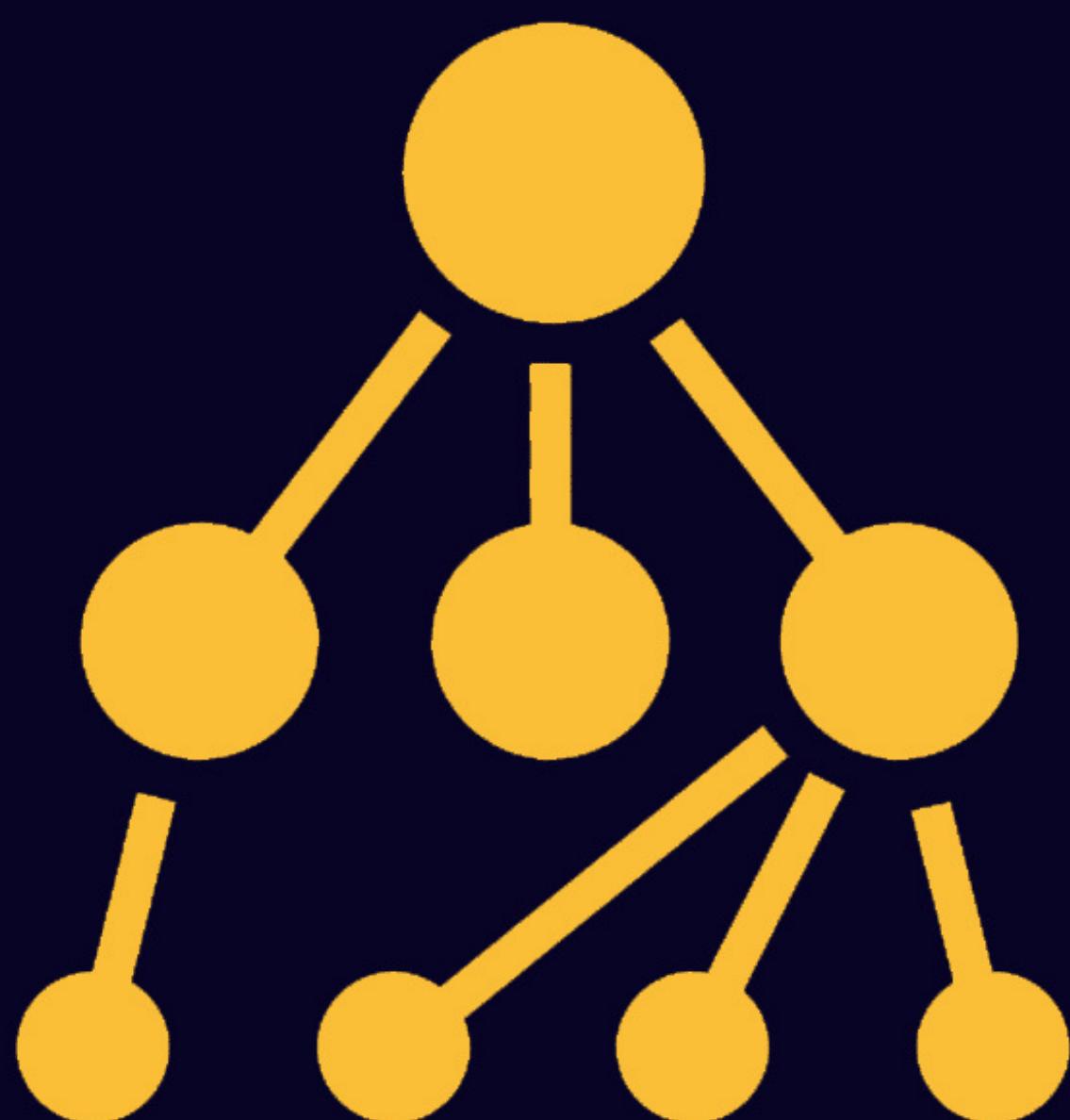
Basic computer knowledge is crucial for a smooth journey.

Comprehensive understanding of computer fundamentals is essential.



2. Basic of DSA

These are ways of organizing and storing data. Some common data structures used in frontend development include arrays, strings, stacks, queues, linked lists, and trees.





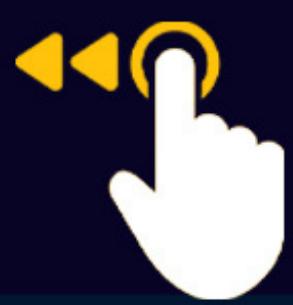
3. HTML

HTML stands for HyperText Markup Language. It is the standard markup language for creating web pages.

HTML describes the structure of a web page by using a series of elements.

Important Topic of HTML

- !DOCTYPE
- Block & Inline elements
- Tags & Attributes
- Head & Title
- Imports (script, style...)
- Headings
- Tables
- Anchors & navigation
- Lists (unordered +ordered)
- Forms & Input types
- Events basics
- Images
- Semantic HTML
- Local & Session storage





❖ HTML Resources

Learn From Websites:

- ❑ W3Schools
- ❑ Codecademy
- ❑ htmlreference

Learn From YouTube:

- ❑ Dave Gray
- ❑ FreeCodeCamp
- ❑ Programming with Mosh



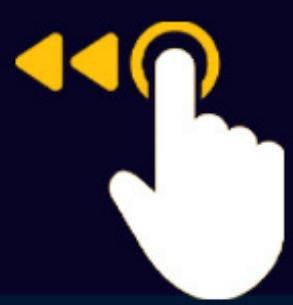


4. CSS

CSS stands for Cascading Style Sheets. It is a style sheet language used to describe the presentation of a document written in a markup language.

Important Topic of CSS

- Selectors
 - basic
 - combinational
- Psuedo
 - selectors
 - elements
- Specificity
- Inheritance
- Box model
- Fonts & Typography
- Colors
- Positioning
- Units (absolute + relative)
- Overflow
- Float





❖ CSS Resources

Learn From Websites:

- ❑ W3Schools
- ❑ Codecademy
- ❑ 100dayscss

Learn From YouTube:

- ❑ Dave Gray
- ❑ DesignCourse
- ❑ Chris Courses





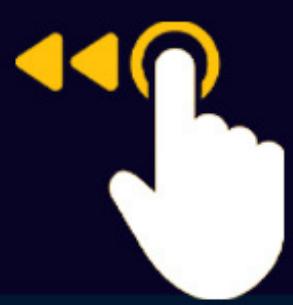
5. JavaScript

JavaScript is a lightweight, interpreted programming language that adds interactivity to web pages.

It is one of the three core technologies of the World Wide Web, along with HTML and CSS.

Important Topic of JavaScript

- Primitives
- Scopes & Hoisting
- Closures
- Execution context
- Variables (var, let, const)
- Operators
- Type Conversions
- Arrays + methods
- Objects + methods
- Functions + Arrow functions
- Try Catch & Error handling
- Strict mode
- Timeout & Interval
- Classes





❖ JavaScript Resources

Learn From Websites:

- ❑ W3Schools
- ❑ Javascript
- ❑ Javascript30

Learn From YouTube:

- ❑ Traversy Media





6. FrameWork

As a frontend developer, you have a variety of frameworks available to choose from to help you build robust and efficient web applications.

Here are some popular frameworks that you

- **Angular**
- **Vue**
- **React**



6.1 Angular

Angular is a powerful open-source web application framework developed by Google.

It allows developers to build dynamic and scalable single-page applications (SPAs) and progressive web applications (PWAs).

Important Topic of JavaScript

- Component
- Module
- Data binding with multiple Component
- Directives and Life cycle
- Host Binding and Attribute Directives
- View Children and Content Children
- Services & Dependency Injection
- Understanding Observable
- Handling Forms
- Pipes to Transform Output
- HTTP Requests
- Authentication & Route Protection
- Angular Modules & Optimizing
- Deploying in Angular App
- Animation
- Angular Universal





❖ Angular Resources

Learn From Websites:

- ❑ angular.io
- ❑ w3schools
- ❑ angular-university

Learn From YouTube:

- ❑ Academind
- ❑ Traversy Media





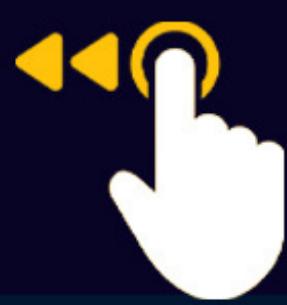
6.2 React

React is an open-source JavaScript library developed by Facebook.

It is primarily used for building user interfaces (UI) for web applications.

Important Topic of React

- Components & JSX
- State & Props
- Class components & life cycle
- Functional components
- Hooks
 - useState
 - useEffect
 - useRef
- Render props
- Forward refs
- Event handling
- Forms
- React.lazy
- Context API
- Higher order components
- Advanced & Custom hooks
- Portals
- Error boundaries





❖ **React Resources**

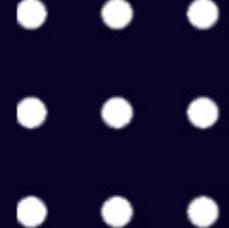
Learn From Websites:

- ❑ react.dev
- ❑ freeCodeCamp

Learn From YouTube:

- ❑ Academind
- ❑ freeCodeCamp



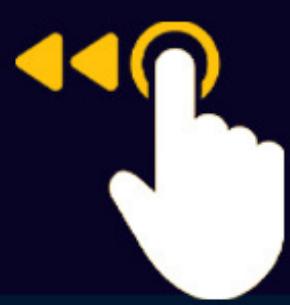


6.3 Vue

Vue.js, commonly referred to as Vue, is an open-source JavaScript framework for building user interfaces.

Important Topic of Vue

- Vue.js With no Tool-Chain
- Using the Vue CLI
- Working With Data
- Creating and Using Custom Events
- Vue Router
- Composition API





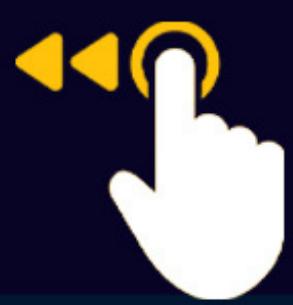
❖ Vue Resources

Learn From Websites:

- ❑ learnvue.co
- ❑ [freeCodeCamp](https://www.freecodecamp.org)

Learn From YouTube:

- ❑ [LearnVue](https://www.youtube.com/user/LearnVue)
- ❑ [Codevolution](https://www.youtube.com/user/Codevolution)
- ❑ [freeCodeCamp](https://www.youtube.com/user/freeCodeCamp)

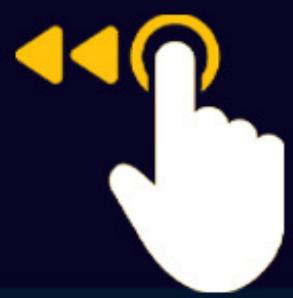


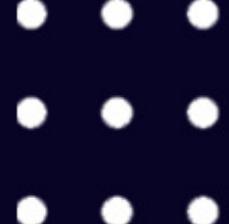


7. Version Control

Version control is a system that tracks changes to files over time, allowing multiple contributors to work together, coordinating their efforts, and maintaining the integrity of the project.

It ensures easy collaboration, provides a history of changes, and allows for the recovery of earlier versions if needed. Popular examples include Git (DVCS) and Subversion (cvcs).





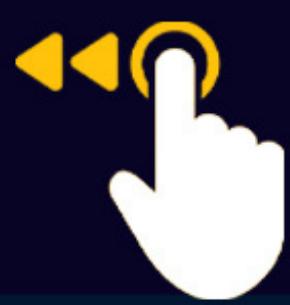
8. Projects

Create an interactive recipe app/website that allows users to browse, search, and view recipes for various dishes.

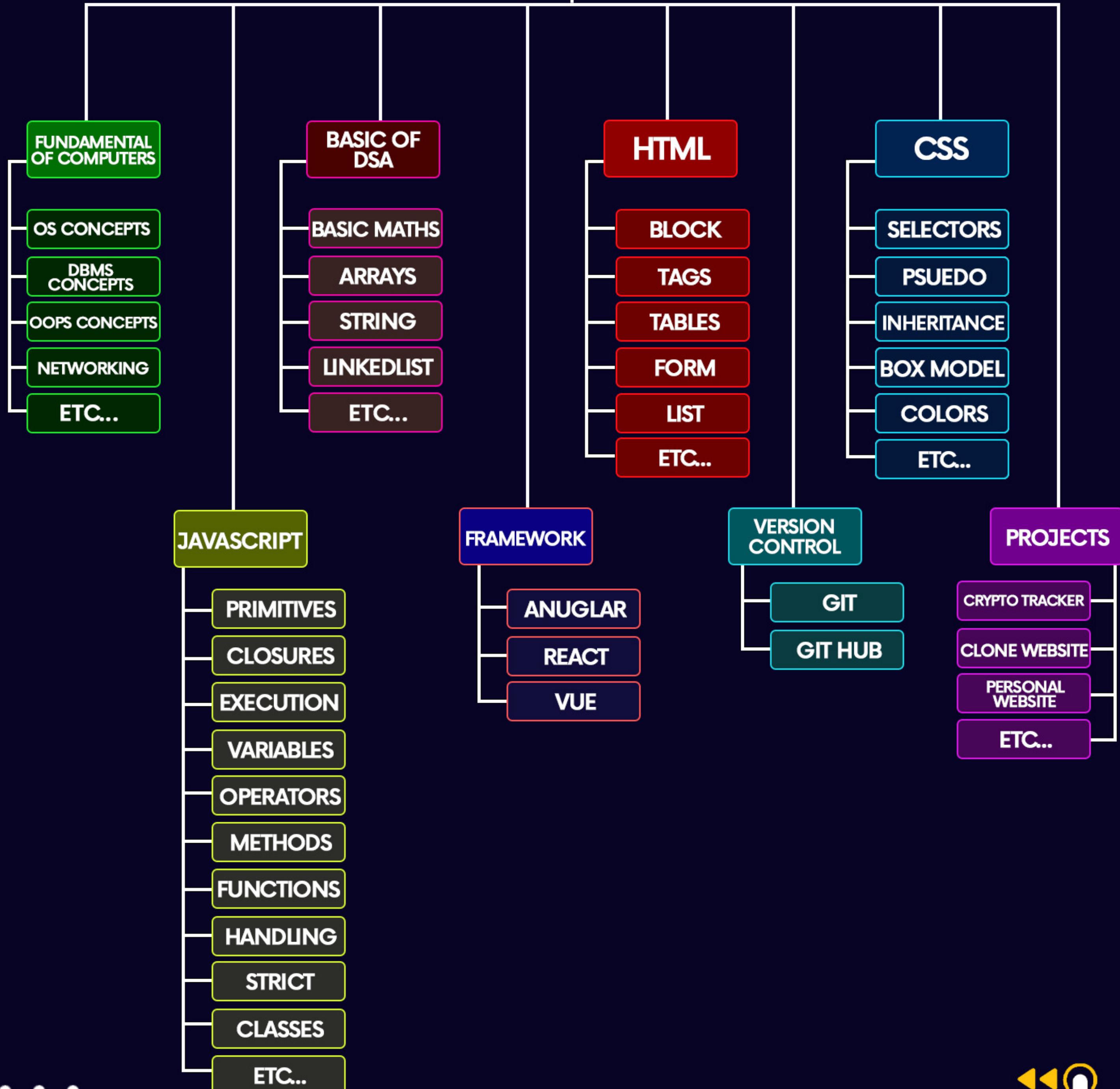
The app/website should have a user-friendly and visually appealing interface to engage users and make it easy for them to find and follow recipes.

Projects Ideas

- Clone Website
- Crypto Tracker
- Personal Portfolio
- Search and Filters
- User Authentication
- User Profile
- Product Landing Page
- E-Commerce Website
- Quiz website/app
- Dynamic Calculator



FRONTEND ROADMAP SUMMARY





Watch a detailed video on the **Complete Frontend Development RoadMap**



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