Javascript

Roadmap

From Beginner to Advance

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Front-End Developer

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Basics of Javascript

- Variables (let, const, var)

- Data Types (String, Number, Boolean, Object, Array)

- Operators (Arithmetic, Comparison, Logical)

Control Structures

- Conditional Statements (if-else, switch)

- Loops (for, while, do-while)

- Break and Continue

Functions

- Function Declaration and Expression

- Arrow Function

- Callback Function

- Higher-Order Function

Objects and Arrays

- Object creation and Manipulation

- Array Methods (map, filter, reduce)

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Asynchronous Javascript

- Promises

- Async/Await

- Callback Hell and How to Avoid It

DOM Manipulation

- Selecting Elements (getElementById, querySelector)

- Changing Content and Styles

- Event Listeners (click, input, submit)

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ES6

- Destructuring

- Spread and Rest Operators

- Template Literals

- Default Parameters

- Modules (import/export)

Data Structures

- Arrays and Objects

- Sets and Maps

- WeakSets and WeakMaps

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Advanced Concepts

- Closures

- Hoisting

- Prototypes and Inheritance

- The 'this' keyword

- Scope (Global, Local, Block)

Javascript in the Browser

- Event Loop

- Browser APIs (LocalStorage, Fetch API)

- Web Components

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Frameworks

- Overview of Popular Frameworks
- (React, Angular, Vue)

Tooling and Build Systems

- npm and Yarn

- Webpack and Babel

- ESLint and Prettier for Code Quality

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Testing in Javascript

- Unit Testing with Jest
- Integration Testing
- End-to-End Testing with Cypress

Performance Optimization

- Understanding the Call Stack

- Debouncing and Throttling

- Memory Management and garbage Collection

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Deployment

- CI/CD Basics

- Hosting Javascript Apps (Netlify, Vercel)

- Minification and Bundling for Production

Security in Javascript

- XSS and CSRF Prevention

- Content Security Policy (CSP)

- Sanitizing Inputs

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Build and Deployment

- Using Parcel or Webpack for Bundling

- Continuous Integration/Continuous Deployment (CI/CD)

- Deploying on Platforms like Heroku, Netlify, Vercel

Libraries and Tools

- jQuery (for legacy projects)

- Lodash for Utility Functions

- Moment.js for Date Handling

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