FULL STACK DEVELOPMENT SYLLABUS

HTML (Structure of Web)

- HTML5 Introduction
- Tags, Elements & Attributes
- Headings, Paragraphs, Lists
- Links & Images
- Tables & Forms
- Audio & Video
- Semantic HTML
- SEO-friendly HTML
- Mini Project (Static Website)

CSS (Design & Layout)

- CSS Basics & Syntax
- Selectors & Properties
- Colors, Fonts & Units
- Box Model
- Display & Position
- Flexbox
- CSS Grid
- Responsive Design
- Media Queries

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- Animations & Transitions
- Bootstrap / Tailwind CSS
- Mini Project (Responsive Website)

JavaScript (Core Programming)

- JavaScript Introduction
- Variables & Data Types
- Operators
- Conditions & Loops
- Functions
- Arrays & Objects
- DOM Manipulation
- Events
- Form Validation
- ES6+ Features
- Error Handling
- Mini Project (Interactive Website)

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Advanced JavaScript

- Callbacks
- Promises
- Async / Await
- Closures
- Hoisting
- Scope
- Event Loop
- Fetch API & AJAX
- LocalStorage & SessionStorage

Frontend Framework (React)

- React Introduction
- JSX
- Components (Functional)
- Props & State
- Event Handling
- Conditional Rendering
- Lists & Keys
- Hooks (useState, useEffect)
- React Router

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- Context API
- API Integration
- Project (Frontend App)

Backend Development (Node.js)

- Backend Basics
- Node.js Introduction
- NPM
- File System
- Modules
- HTTP Server
- REST API Basics

Database (MongoDB / SQL)

MongoDB

- Database Basics
- Collections & Documents
- CRUD Operations
- Schema Design
- Indexing
- Relationships

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SQL (Optional but Recommended)

- Tables & Keys
- Joins
- Queries
- Normalization