

# ULTIMATE

# FULLSTACK DEVELOPMENT

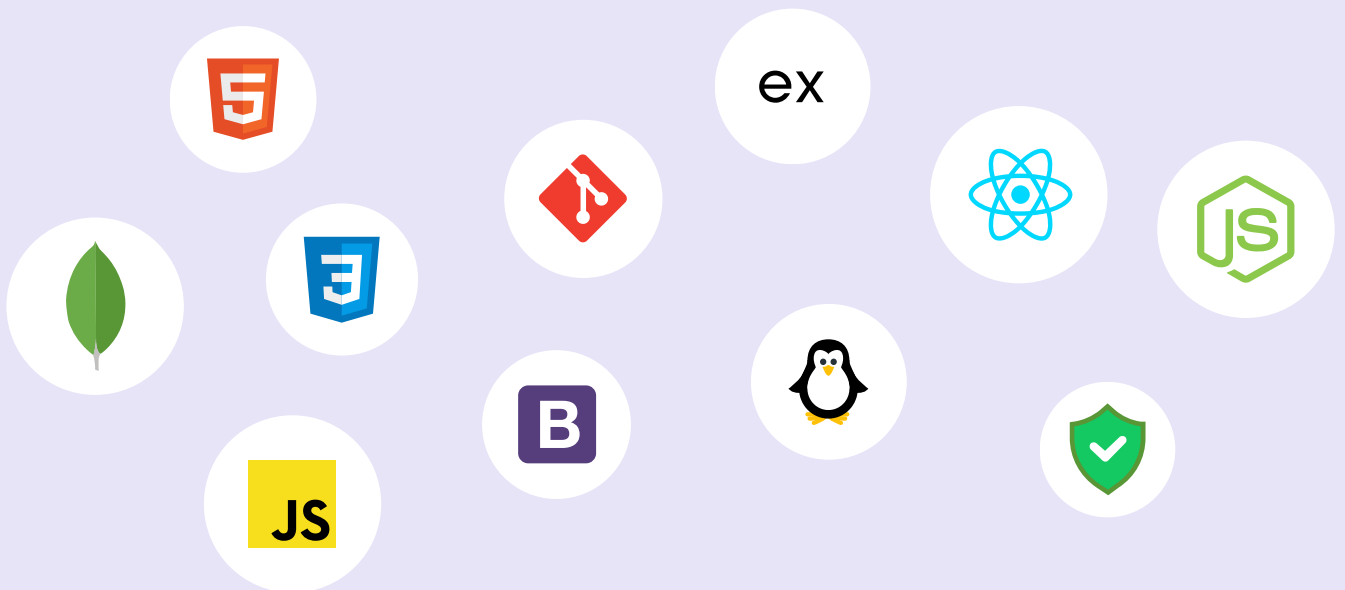
## COURSE

by



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Founder, Studytonight (10+ yrs. of experience in Fullstack development)



Program Structure



# PROGRAM STRUCTURE

- 27 Live classes (recorded for later access)
- FREE access to HTML/CSS and Javascript courses on Studytonight.com
- 5 mini Projects and 1 Final project.
- Additional one-month extra doubts-solving support.
- Special counselling session for all the students.



**Weekday** classes, on **Mon-Wed-Fri** for  
1.5 hrs from **7:00 PM to 8:30 PM**



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This batch is in **English** but students can ask  
doubts in **Hindi** too.



In the live classes, time will be dedicated to take  
on doubts from students.



Special **Whatsapp**  
group access



Course completion  
certificate



At the end of the course, we will also teach you the  
basics of **website hosting**, what web servers are,  
how to set up hosting, and publish your website live  
on the Internet.



Detailed Curriculum



# CURRICULUM

## Introduction to Web Development & HTML

- Introduction to Web and Fullstack development
- HTML tags and attributes
- Basic Webpage layout understanding
- HTML5 tags for modern web app development
- Simple projects like Creating form, todo list, basic webpage layout, etc.



HTML course for Practice

## CSS - Basic to Advance

- CSS properties for simple styling
- CSS selectors, box model, positioning, etc.
- CSS flexbox for creating responsive design.
- CSS Grid concept
- Media queries
- Introduction to Bootstrap 5



Access to CSS course on [studytonight.com](https://www.studytonight.com)

## Use Git for version control

- Introduction to GIT
- Set up a Code repository and push code to it.
- Learn different git commands to use them throughout the course.
- Portfolio Project



**Common Doubt session**

## Start with Javascript

- Introduction to Javascript
- Basics of Javascript like variables, conditionals, loops, etc.
- Functions in JS - Basic Function, Arrow function, Closures, etc.
- JS Strings and Arrays

**JS**

Access to JS course on [studytonight.com](https://www.studytonight.com)

## Continue with Javascript

Revision of JS concepts covered till now.

- Javascript OOP concept
- Error handling
- Browser Events and events handling
- Understanding DOM/BOM
- Introduction to Cookies and Local Storage
- Asynchronous Javascript
- JS Modules



Practice problems to practice what you learn.

## Working with Javascript

- ES6+ features
- JS Maps
- JS Project - Product Filter
- HTTP Requests to get data from API
- JSON handling



Common Doubt session

## All about ReactJS

4 classes

- Introduction and Setup
- Virtual DOM/Real DOM
- What is JSX?
- React components
- What are Props? Using props in React app
- Understanding state - Set state and handle state in React
- Simple Project like Todo or Shopping List Manager
- Component Lifecycle
- React context API
- React Hooks - Implementing custom Hooks
- Other packages like react-router-dom, axios, etc.

## Moving on to NodeJS

- Introduction to NodeJS
- Learning about its features.
- Set up a basic web server.
- File paths
- Asynchronous programming
- Promises, async/await in NodeJS
- Handling errors and debugging the app.

## Introduction to ExpressJS

- What is ExpressJS
- Install and setup the ExpressJS development environment
- Building simple ExpressJS server
- Some basic concepts about ExpressJS

## What are REST APIs? Create REST APIs using ExpressJS

- What are Web services?
- What are REST services?
- Create RESTful API for basic CRUD operations
- Implementing middleware
- Create a set of REST services and test them using Postman
- Understanding the Request, response and header
- Setup and use MongoDB as database.

## Security aspect of Web App and Backend

- More about MongoDB
- Basic security aspects in Web development
- Security in backend
- Concepts like CORS, XSS, CSRF Token, etc.
- Best practices.



**Common Doubt session**

## Classroom Project

- Create an Auth system
- Define the project scope
- Create RESTful APIs
- Create a UI
- Setup the security for Backend
- Test the application

## Final project start

- Plan the final project
- Layout the design - UI, backend, Database and security
- Document the project
- Start with project development

## Finish with Final project

- Code review
- Feedback for project
- Testing the application
- Discussing the project ideas and brainstorming.

## Linux and Cloud Services (Optional)

- Introduction to Linux and its commands
- Introduction to AWS
- Set up development environment for NodeJS, ExpressJS, and complete stack.
- Other useful services on AWS

## Etc. concepts and Doubt sessions

- Doubt sessions to wrap up the course
- Covering topics like DNS, domain names, web app hosting, etc.