

# Full Stack Development Course

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## Pre-Requirements

1. Laptop
2. Basic Programming Knowledge

## Who can join this course?

1. Beginners
2. Working Professionals
3. Career Changers

## Course Highlights

1. Theoretical concepts with real-world problem-solving.
2. All the examples and code explained over the course will be shared with a central GitHub repository.
3. Additional doubt-clearing and lab sessions.
4. All the classes will be conducted via online sessions preferably via Zoom.
5. There will be multiple tasks for self-practice.
6. Each session will be around 45 mins to 1 hour.
7. **Duration:** 45 sessions
8. **Cost:** Absolutely Free

## Tech Stacks

- |                         |               |
|-------------------------|---------------|
| 1. HTML                 | - 5 sessions  |
| 2. CSS + Bootstrap      | - 3 sessions  |
| 3. React (Javascript)   | - 15 sessions |
| 4. Node.js              | - 15 sessions |
| 5. MongoDB              | - 5 sessions  |
| 6. Complete Application | - 2 sessions  |

# Course Syllabus

- Course Introduction
- **Code Setup**
  - Editors
  - Browsers
- **HTML**
  - What is HTML?
  - Basic HTML
  - Elements
  - Tags
  - Attributes
- **CSS + Bootstrap**
  - Internal CSS
  - External CSS
  - Why Bootstrap?
  - How to use Bootstrap?
  - Tasks
- **React**
  - Introduction
  - Why React?
  - React in HTML
  - React Environment Setup
  - What is JSX?
  - Components
  - Props
  - Events
  - Routing
  - React Hooks
  - Examples
- **Node.js**
  - What is Back-End?
  - Introduction
  - Installation
  - What is NPM?
  - What is API?
  - Event Handling
  - Setting up an HTTP server using express
  - Template Engines
  - To create a Login and Registration system using NodeJS
- **MongoDB**
  - Introduction
  - When to use it?
  - How to use it?
- **Node.js + MongoDB**
  - Create a complete application with node.js and mongo db
  - Deployment to cloud