

Full Stack Web Development Program

Course Curriculum



About Edureka Learning Center

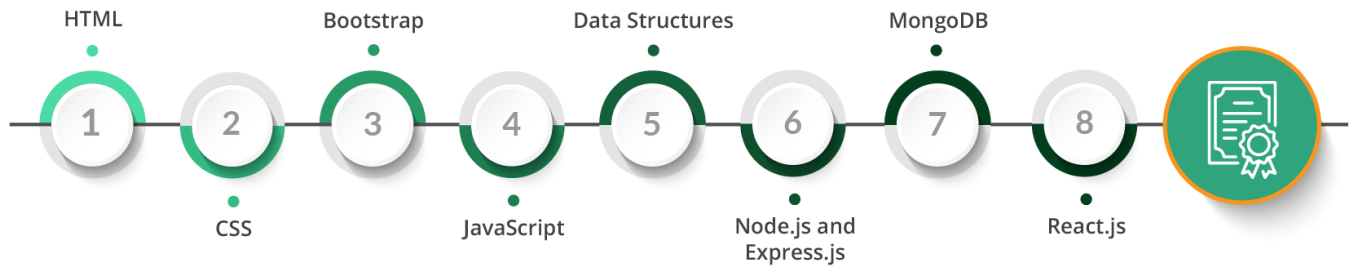
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Edureka Learning Center is democratizing access to high-quality education at an affordable price. We are playing our part in helping the country meet the growing demand for talent across segments. We follow an outcome-oriented approach while not compromising on either quality or affordability. Our emphasis is to become a bridge and fill the employment gap in our country by increasing the employment quotient of students and enabling them to access premium jobs.

About the Program

Edureka Learning Center Full Stack Web Development Program prepares you to get job-ready and enhance your skills to match the industry standards. This program will help you build an end-to-end full-fledged functional website using MERN stack technologies. This program starts with the basics of website designing using HTML and CSS, guides you to make it functional using the most popular JS library React, and finally helps you implement APIs & enables you to connect to a database. You will be learning complete MERN stack technologies like MongoDB, Express, React, and Node, which would help you develop dynamic and interactive websites efficiently while increasing your employability manifold.

Full Stack Web Development Program Roadmap



Index

1. HTML
2. CSS
3. Bootstrap
4. JavaScript
5. Data Structures
6. Node.js and Express.js
7. MongoDB
8. React.js

**Depending on industry requirements, Edureka may make changes to the course curriculum*

HTML

About the Module

This module is designed to make you familiar with the structure of a web page with the help of HTML as a Markup language. You will learn the basic concepts of HTML and use HTML5 to create the web page.

Module Outline

Learning Units:

- Day 1
 - LU1 - HTML Intro and HTML Tags
 - LU2 - HTML Elements
- Day 2
 - LU1 - HTML Input Tags
 - LU2 - HTML Forms
- Day 3
 - LU1 - HTML Tables and List Tags
 - LU2 - HTML link and container tags
- Day 4
 - LU1 - HTML5
 - LU2 - HTML5 tags
- Day 5
 - LU1 - HTML5 Canvas
 - LU2 - HTML5 SVG

- Day 6
 - LU1 - Interview Preparation - 1
 - LU2 - Interview Preparation - 2

CSS

About the Module

This module is designed to make you familiar with the beautification of your HTML web pages. You will learn how to use different CSS Properties and Sass to add responsiveness to your HTML web page.

Module Outline

Learning Units:

- Day 7
 - LU1 - Introduction to CSS
 - LU2 - CSS Selectors
- Day 8
 - LU1 - CSS properties
 - LU2 - CSS box model
- Day 9
 - LU1 - CSS positioning & flexbox introduction
 - LU2 - CSS flex vs grid
- Day 10
 - LU1 - CSS typography
 - LU2 - CSS responsiveness
- Day 11
 - LU1 - SASS part 1
 - LU2 - SASS part 2

Bootstrap

About the Module

In this module, you will learn about the grid system of Bootstrap to make your web page responsive.

Module Outline

Learning Units:

- Day 12
 - LU1 - BootStrap5 introduction
 - LU2 - BootStrap5 responsiveness
- Day 13
 - LU1 - BootStrap5 Element Classes Part 1
 - LU2 - BootStrap5 Element Classes Part 2
- Day 14
 - LU1 - Interview Preparation -1
 - LU2 - Interview Preparation - 2

JavaScript

About the Module

This module is designed to build the foundation of full-stack web development with the help of JavaScript as programming. You will learn all the fundamentals Concepts of JavaScript from basics to advance along with the ES6 feature.

Module Outline

Learning Units:

- Day 15
 - LU1 - JavaScript introduction
 - LU2 - JavaScript variables
- Day 16
 - LU1 - JavaScript data types - 1
 - LU2 - JavaScript data types – 2
- Day 17
 - LU1 - JavaScript Operators - 1
 - LU2 - JavaScript Operators – 2
- Day 18
 - LU1 - conditional statements
 - LU2 - JavaScript Looping Statements
- Day 19
 - LU1 - Input and Output Statements
 - LU2 - String Operations

- Day 20
 - LU1 - Array Operations - 1
 - LU2 - Array Operations – 2
- Day 21
 - LU1 - Objects
 - LU2 - Date and Math Object
- Day 22
 - LU1 - Document Object Manipulation
 - LU2 - Form Handling
- Day 23
 - LU1 - ES6
 - LU2 - call-backs, async, await, and promises
- Day 24
 - LU1 - Modules and classes along with this keyword
 - LU2 - JavaScript Scopes
- Day 25
 - LU1 - this keyword
 - LU2 - JS browser storage APIs, Cookies
- Day 26
 - LU1 - Advanced Functions
 - LU2 - Fetch() method and Debugging
- Day 27
 - LU1 - Function Carrying and Borrowing
 - LU2 - Internal Working of JavaScript
- Day 28
 - LU1 - Event Handling
 - LU2 - OOPs Concepts using JavaScript
- Day 29
 - LU1 - Debounce in JavaScript
 - LU2 - Throttling, async, and defer in JavaScript
- Day 30
 - LU1 - Interview Preparation - 1
 - LU2 - Interview Preparation - 2

Data Structures

About the Module

This module is designed to make you familiar with the principles of data structures and algorithms. You will learn about different types of data structures that are available in JavaScript and will be able to find the optimal solution for your problem using the best possible approach.

Module Outline

Learning Units:

- Day 31
 - LU1 - Data Structures Basics
 - LU2 - Algorithms Basics
- Day 32
 - LU1 - Sorting Part - 1
 - LU2 - Sorting Part – 2
- Day 33
 - LU1 - Searching Part - 1
 - LU2 - Searching Part – 2
- Day 34
 - LU1 - Recursion
 - LU2 - Recursion Problems
- Day 35
 - LU1 - Arrays Part -1
 - LU2 - Arrays Part -2

- Day 36
 - LU1 - Stacks
 - LU2 – Queues
- Day 37
 - LU1 - Map() Object
 - LU2 - Hash Tables – 1
- Day 38
 - LU1 - Hash Tables - 2
 - LU2 - Single Linked List
- Day 39
 - LU1 - Double Linked List
 - LU2 - Circular Linked List and Circular Doubly Linked List
- Day 40
 - LU1 - Trees Part - 1
 - LU2 - Trees Part – 2
- Day 41
 - LU1 - Sets
 - LU2 – Heaps
- Day 42
 - LU1 - Graphs - 1
 - LU2 - Graphs – 2
- Day 43
 - LU1 - Advanced Data Structures - 1
 - LU2 - Advanced Data Structures – 2
- Day 44
 - LU1 - Algorithms - 1
 - LU2 - Algorithms – 2
- Day 45
 - LU1 - Algorithms - 3
 - LU2 - Algorithms – 4
- Day 46
 - LU1 - Interview Preparation - 1
 - LU2 - Interview Preparation - 2

Node.js and Express.js

About the Module

This module is designed to make you familiar with all the fundamentals of back-end development. You will use the Node.js runtime environment and express.js library to handle backend operations and create APIs respectively.

Module Outline

Learning Units:

- Day 47
 - LU1 - Node.js - 1
 - LU2 - Node.js – 2
- Day 48
 - LU1 - Node.js - 3
 - LU2 - Node.js – 4
- Day 49
 - LU1 - Node.js - 5
 - LU2 - Node.js – 6
- Day 50
 - LU1 - Node.js - 7
 - LU2 - Node.js -8
- Day 51
 - LU1 - Node.js - 9
 - LU2 - Express.js -1

- Day 52
 - LU1 - Express.js -2
 - LU2 – CORS
- Day 53
 - LU1 - MVC Architecture
 - LU2 – Databases
- Day 54
 - LU1 - Interview Preparation - 1
 - LU2 - Interview Preparation - 2

MongoDB

About the Module

This module is designed to make you familiar with the Concepts of Databases. You will be using MongoDB to create your database and collections. You will also learn how to create different data models and schemas with the help of mongoose.

Module Outline

Learning Units:

- Day 55
 - LU1 - MongoDB -1
 - LU2 - MongoDB -2
- Day 56
 - LU1 - MongoDB -3
 - LU2 - MongoDB -4
- Day 57
 - LU1 - MongoDB -5
 - LU2 - MongoDB – 6
- Day 58
 - LU1 - MongoDB - 7
 - LU2 - MongoDB Connections
- Day 59
 - LU1 - MongoDB CRUD Operations
 - LU2 - MVC Architecture

- Day 60
 - LU1 - Interview Preparation - 1
 - LU2 - Interview Preparation - 2

React.js

About the Module

This module is designed to make you familiar with the front-end library React.js. You will learn to design responsive User interfaces with MVC architecture that can use different APIs to add dynamic nature to your User Interface. You will also learn to divide the User Interface into different independent, small, and reusable components.

Module Outline

Learning Units:

- Day 61
 - LU1 - React.js - 1
 - LU2 - React.js – 2
- Day 62
 - LU1 - React.js - 3
 - LU2 - React.js – 4
- Day 63
 - LU1 - React.js - 5
 - LU2 - React.js – 6
- Day 64
 - LU1 - React.js - 7
 - LU2 - React.js – 8
- Day 65
 - LU1 - Installation of React.js
 - LU2 - React Elements

- Day 66
 - LU1 - React Components -1
 - LU2 - React Components -2
- Day 67
 - LU1 - Props
 - LU2 – States
- Day 68
 - LU1 - React Components Lifecycle - 1
 - LU2 - React Component Lifecycle – 2
- Day 69
 - LU1 - React Bootstrap Typeahead
 - LU2 - Passing values between Components
- Day 70
 - LU1 - React Events
 - LU2 – Forms
- Day 71
 - LU1 - JSX
 - LU2 – API
- Day 72
 - LU1 - Manage Navigations
 - LU2 - URL Parameters
- Day 73
 - LU1 - Styling in React
 - LU2 - Hooks – 1
- Day 74
 - LU1 - useState() Hook
 - LU2 - useEffect() Hook
- Day 75
 - LU1 - useContext() Hook
 - LU2 - Additional Hooks
- Day 76
 - LU1 - Interview Preparation - 1
 - LU2 - Interview Preparation – 2

- Day 77
 - LU1 - Custom Hooks
 - LU2 - React Component for Home Page
- Day 78
 - LU1 - React Component for Filter Page
 - LU2 - Details Page
- Day 79
 - LU1 - Header Functionality
 - LU2 - Location Dropdown
- Day 80
 - LU1 - Restaurant Search Dropdown
 - LU2 - Rendering Details Page based on Searched Restaurant
- Day 81
 - LU1 - Fetching Meal Types on Quick Searches component
 - LU2 - React Modal
- Day 82
 - LU1 - Signup and Login Up with Zomato credentials
 - LU2 - Social Media Integration -1
- Day 83
 - LU1 - Social Media Integration - 2
 - LU2 - Onclick Navigation Functionality
- Day 84
 - LU1 - Search Functionality
 - LU2 - Cuisine Functionality
- Day 85
 - LU1 - Cost for Two
 - LU2 - Sorting Price: low to high and high to low
- Day 86
 - LU1 - Pagination
 - LU2 - adding Functionality to Menu Modal
- Day 87
 - LU1 - Payment Integration -1
 - LU2 - Payment Integration -2

- Day 88
 - LU1 - Heroku Deployment - BE
 - LU2 - Heroku Deployment – FE
- Day 89
 - LU1 - Domain
 - LU2 – Hosting
- Day 90
 - LU1 - Interview Preparation -1
 - LU2 - Interview Preparation -2