

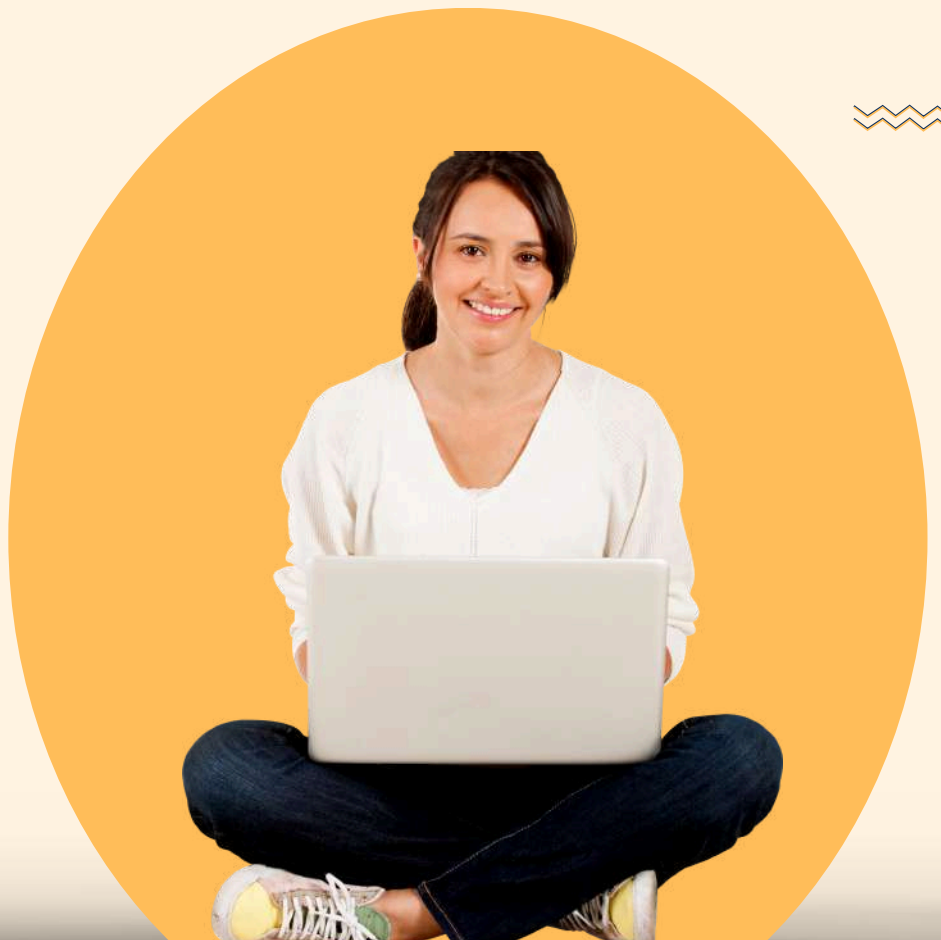
Full Stack Development

With Placement Gurantee in
Mumbai

(8 MONTHS)

Interactive Learning

Full Stack
Development course
offered by
LivetechINDIA.



Enroll Now

Enroll today and learn the most
demanding skill of 2024

FULL STACK DEVELOPMENT

Concept



HTML

HTML (HyperText Markup Language) is the code that is used to structure a web page.

01



CSS/BOOTSTRAP

CSS represent the style and the appearance of content

02



JAVASCRIPT

JavaScript (JS) is a used by developers to make web pages interactive

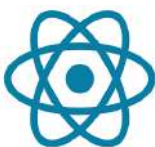
03



ANGULAR

Angular is a platform and framework for building single-page client applications

04



REACT JS

React is the library for web and native user interfaces.

05



NODE JS

Node.js is an open source server environment. It allows you to run JavaScript on the server

06

FULL STACK DEVELOPMENT

Concept



MONGO DB

MongoDB is a document database. It stores data in a type of JSON format called BSON.



EXPRESSJS

Express.js, or simply Express, is a back end web application framework for building RESTful APIs



Python Programming

Python is a computer programming language often used to build websites and software, automate tasks.



SQL

SQL is used to communicate with a database.



DJANGO

Python-based web framework that runs on a web server. It follows the model-template-views architectural pattern.

Topics

Syllabus

HTML

- Introduction to HTML, Basic Tags- Headings, Paragraph, pre, Comments, Hyperlink, image, Formatting, HTML Attributes, style Colors, font-size, text-align, Favicon
- CSS link Target attribute, list, Tables, Block and Inline Elements, iframe, classes and ids
- Form element and select, layout, Semantic Elements, Video, Audio
- Introduction to CSS -- Inline, Internal and External, CSS selectors, comments, color, background, Linear Gradients, opacity

CSS /Bootstrap

- CSS position property, Z- index, Overflow
- CSS Flex, pseudo-class, pseudo-elements, n-child selector
- CSS Grid, Animation, transitions, Transforms
- CSS Css Units, Responsive- Mediaquery
- Introduction to Bootstrap, CDN link and Installation, Bootstrap- Components
- Bootstrap- Layout, Forms, Utilities

Javascript

- Introduction to JS, Variable, comments, Data Types, Operators, Type casting, Conditional Statements, Switch case
- Looping Statements, Data Structures
- JS - OOPs -- Inheritance, Encapsulation, getter and setter method, getter and setter method, JS Module, setInterval & setTimeout
- JS Destructuring Method and Map loop Method, Introduction to JSON, json method
- jQuery Effects, Hide, Show, JQuery Hide & Show Methods, slide Animation

Angular

- Introduction to Angular , App Setup, Files & Folder Structure
- Angular Interpolation (Data Binding), Angular Component and Module
- Angular Add Bootstrap, CSS, style Binding
- Angular Decorators and Directives - *ngIf, *ngSwitch
- Angular Directives - *ngFor
- Typescript, Counter function, Toggle element(Hide/Show)
- Angular Events handling

Topics

Syllabus

Angular

- Angular Template Driven Forms
- Angular Reactive Forms – Form Group & Form Control
- Angular Reactive Forms Validators
- Angular Two way data Binding, Pipes , Customize Pipes
- Angular Material UI, Installation
- Angular Pass data to Child component, Send child component data to Parent component
- Component Lifecycle Hooks
- Angular Static Routing

- Angular Wild card Routing, Child Routes
- Angular Activated Routing , Auth Guard
- Angular Module Interface
- Angular Lazy Loading component & module
- Angular Dependency Injection
- Angular Services, Form Builder
- Angular HTTP module
- Rest API using JSON Server

React.JS

- Introduction to React js, Folder Structure In React
- React Components
- React Probs, JSX
- State In React, Rendering Elements
- React Destructuring And Event Handler
- React Event Listener Methods
- React Conditional Statements
- React Loop in JSX

- React List Rendering,
- React Styling and CSS, Add Bootstrap
- React Higher-Order Components
- React Form(Formik , Yup)
- React Forms Validator
- ReactDOM, Refs and the DOM
- Render Props-type
- React Components Lifecycle
- React Hooks
- Redux, Integration with other Libraries
- React HTTP Methods (Axios)
- Rest API

Topics

Syllabus

NodeJS

- Introduction to Node.js, Installation, Project setup, Variables, Functions
- Node js OOPs
- Creating Node.js Application
- Node.js – REPL Terminal

- Node.js – Package Manager(NPM), Callback Concept
- Node js Web Module, File System
- Node js File System, Promises
- Node js Event loops & Event Emitter
- Debug Node.js Application
- Node js Buffer & Stream
- Introduction to Express JS, Environment setup, Create first App
- Express Routes
- Express URL Building, Http Methods, Routing

- Implementing MVC in Express(Express Generator), Express Templating
- Database Connectivity(Mongoose), Express Routes, Models, Schema, API Handling
- Express Middleware, Error Handling, Promises
- Express Cookies & Sessions, Express Body-parser, Cors
- Express Create Rest API (CRUD Operation),

Topics

Syllabus

SQL

- SQL Introduction Theory, Installation
- create Database, use database, create tables
- Drop tables, Insert data, Show data
- Data types, Build in functions–Numeric, String and Date time.

- Aggregate functions–Avg(), sum(), min(), max(), count().
- Order by clause, Group by clause, Distinct clause, Limit clause.
- Statement– Update, Delete, Alter
- Constraints–Primary key, Not Null, Unique, Check, Default, Foreign key

- Joins–Inner join, Left join, Right join, Full join.
- Excel connection
- Views, sub query
- Triggers–Before and After
- TCL Commands

MongoDB

- Introduction to MongoDB, MongoDB Environment, Create Database, Drop Database, Create Collections, Drop Collections, Data Types, Query Document
- MongoDB Read Operation (Projection) , Write Operations, Update Operations, Delete Operations
- MongoDB Aggregation, Sorting Records, Limiting Records,
- MongoDB Schema, Data Modeling.

Topics

Syllabus

Python

- Introduction to Python,Basics of variables,i/o and o/p function
- Logical and conditional Operators If Elif nested
- Loops - For Loop break statement & continue statement
- Loops - While Loop
- Data Structure List/Tuple
- Set ,Dictionary
- Functions Modules and Packages

Django

- Introduction and installation of python , pip installation
- Introduction to Django, Overview of MVT architecture in Django
- Setting up a Django project and application, Understanding Django project structure
- Creating models and database tables, Defining relationships between models,Querying the database using Django ORM
- Django admin interface for database management, Creating views to handle HTTP requests, Implementing URL patterns and routing, Using templates to generate dynamic HTML content
- Template inheritance and customization, Creating HTML forms in Django, Handling form submissions in views,Form validation and error handling
- Introduction to Django REST Framework, Creating API views and serializers,Authentication and permissions in DRF
- Preparing a Django project for production,Performance optimization and scalability considerations
- Deploying a Django project on popular platforms