FSM

ACHIEVING THE IMPOSSIBLE

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PYTHON FULL STACK DEVELOPER

Module 1 of Full stack developer course Syllabus: HTML

HTML is the basic and must have skill-set for every web developer. It is used and extended by various other technologies. To be completely able to understand how things work in web development, you should develop an understanding of HTML. In this section, you will learn

- Introduction to HTML and Web Design
- Browsers and HTML
- Editor's Offline and Online
- Tags, Attribute and Elements
- Doctype Element
- Comments
- Headings, Paragraphs, and Formatting Text
- Text items and Objects
- Lists and Links
- Images and Tables
- Forms
- Video and Audio

Module 2: of Full stack developer course Syllabus: CSS

CSS is another important language amongst the web development trifecta. It will help you style, plan a layout and control the behaviour and look and feel of the web apps that you build. In this module, you will learn:

- Introduction CSS
- Applying CSS to HTML
- Selectors, Properties and Values
- CSS Colors and Backgrounds
- Images in CSS
- CSS Box Model
- CSS Margins, Padding, and Borders
- Working With Elements in CSS
- CSS Text and Font Properties
- Adding a Navigation Bar in CSS
- CSS Tables
- Working With Transforms in CSS
- Transforms and Animations in CSS
- CSS General Topics

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Module 3 of Full stack developer course syllabus: JavaScript

The third one amongst the must learn trifecta, Js is present in about 90% of the internet. To make sense of what you're doing and to design and build new web apps, this language is used predominantly, and it is indispensable. In this section you will learn the following topics:

- Introduction to JavaScript
- Applying JavaScript (internal and external)
- Understanding JS Syntax
- Introduction to Document and Window Object
- Variables and Operators
- Data Types and Num Type Conversion
- Math and String Manipulation
- Objects and Arrays
- Date and Time
- Regular Expressions
- Conditional Statements
- Switch Case
- Looping in JS
- Functions
- JavaScript Object Models
- The Standard Document Object Model
- Event Handling
- Controlling Windows and Frames
- Handling Documents
- Form Handling
- Dynamic Effects : Rollovers, Positioning, and Animation
- Navigation and Site Visit Improvements
- Browser and Capabilities Detection
- JavaScript and Embedded Objects
- Remote JavaScript
- JavaScript and XML
- Browser-Specific Extensions and Considerations
- JavaScript Security
- JavaScript Programming Practices

Module 4 of Full stack developer course syllabus: Bootstrap

Bootstrap is a sleek,intuitive, and powerful, mobile first front end framework for faster and easier web development. It uses HTML, CSS and Javascript

- Introduction
- Bootstrap Grid

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- Bootstrap Components
- Bootstrap Plug-Ins

Pre-built CSS : Contains global CSS classes for typography, tables, grids, forms, buttons, images, and more

Components : Contains lots of reusable components including Icons, Dropdowns, Navbars, Breadcrumbs, Popovers, Alerts, and many more.

JavaScript Plug-ins : Contains lots of custom jQuery plug-ins. You can include them all or one by one.

Customizable Components : we can customize Bootstrap's components with LESS variables and jQuery plug-ins to create our own version.

Module 5 of Full stack developer course syllabus: ReactJS

Reactjs is the best and most popular framework for front-end development. An integral part of the MERN stack, its community is great, and the demand for reactjs specialists is only increasing day-by-day. React is great for Rapid app development, SPAs and for creating awesome responsive and interactive web apps. In this topic you will learn:

- Introduction
- Templating using JSX
- Components, State and Props
- Lifecycle of Components
- Rendering List and Portals
- Error Handling
- Working with forms
- Context
- Code - splitting
- Hooks
- Routers
- Routing with react router
- Redux and Redux Saga
- Immutable.js
- Service Side Rendering
- React Redux
- Redux middleware
- Unit Testing
- Webpack
- Isomorphic React

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Module 6 of Full stack developer course syllabus: NodeJS

Nodejs is a great skill to have. It is JS based, and it completes the javascript full stack experience. It is a backend skill, which is in demand and pays well. In this module, you will learn the following:

•   Node js Overview
•   Node js - Basics and Setup
•   Node js Console
•   Node js Command Utilities
•   Node js Modules
•   Node js Concepts
•   Node js Events
•   Node js with Express js
•   Node js Database Access

Module 7 of Full stack developer course syllabus: MongoDB

This is a data driven schema-less NoSql database. It is a great tool to know. The syntax is very similar to javascript making it much easier to learn. You can use this for projects of any size and is also very easy to scale up or down depending on your requirements. In this module, you will learn:

•   SQL and NoSql Concepts
•   Create and Manage MongoDB
•   Migration of Data into MongoDB
•   MongoDB with PHP
•   MongoDB with NodeJS
•   Services Offered by MongoDB

Module 8 of Full stack developer course syllabus: Python

Learn the basics of python and use it to develop applications. Also learn to work with mongodb in python. This additional language is a value-added skill as python is increasingly in demand for full stack projects. In this module, you will learn:

•   Python Installation & Configuration

CORE PYTHON

1.   Basics
2.   Data types
3.   Conditional statements
4.   Loops and control statements
5.   Strings
6.   List
7.   Tuples

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8.   Dictionaries
9.   Modules
10.   Functions
11.   Input /Output
12.   Exception handling

ADVANCED PYTHON
1.   OOP concepts
2.   Regular expression
3.   CGI
4.   Database
5.   Networking
6.   Multi-threading
7.   GUI programming
•   Developing a Python Application
•   Connect MongoDB with Python

Module 9 : MONGO DB
1.   Introduction
2.   Data modelling
3.   Data types
4.   Data base operation – 1
5.   Data base operations – 2
6.   Modelling relationship
7.   Connection with Python using PyMongo

Module 10 : DJANGO FRAMEWORK
1.   Framework basics
2.   Forms, template, models
3.   Database Basics of rest operations
4.   Projects

Module 11: VCS
Learn version control with Git. This is a bankable skill for every web developer so that they can collaborate and work as a team while working individually. It is also imperative to use VCS so that you can simplify the work on identifying errors and also store every piece of coding that you've worked on.

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ABOUT US

Who We Are:

We the FSM have remained a premier provider of business transformational solutions, assisting our valuable clients to completely revolutionize their customer management activities. Backed by extensive experience with similar architectures, we are skilled at anticipating potential risks and developing risk mitigation plans. Successful planning and implementation of an enterprise-level contact center and UC project deliveries has our track record. What sets us apart from the competition and makes us an ideal partner for your support requirements? – It is the pursuit of excellence in providing:

- Enhanced Technical Capabilities

- Experience and Proven Success

- Reduced Costs

Why Consulting Us?

As a leading institution for IT network training in the country, headquartered in Bangalore, we started our program in the year 2014. The center has been providing training across multiple CISCO systems including Security, Collaboration, Routing & Switching, Data Center, Wireless, Service Provider, UCCX, UCCE, CVP ETC, and Microsoft Skype for Business 2015. The labs, equipped with the latest technology hardware equipment, are open around the clock for the students.

We provide the most sought after programs in IT – the prestigious Cisco powered Unified Communication (Cisco Spark & Microsoft Skype for Business), and CCIE training and

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Certification. The training provides holistic knowledge and practical experience resulting in creating the best engineers in networking industry.

Our pool of certified trainers with a total of 25+ years of industry experience has been proved efficient and successful time and again by the numbers of students placed. We maintain uncompromised commitment of ensuring that every student is job-ready at the end of the course.

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