

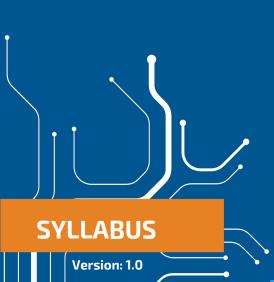






JAVA FULL STACK DEVELOPMENT

"Shape the future of technology, powering innovations with Full stack development"





About Us

- → Apponix Academy is a leading training institute offering both online and offline courses in trending technologies like Cloud Computing, DevOps, Cyber Security, Full Stack Development, Data Science, Digital Marketing, and more.
- + Established in 2013, Apponix has trained over 50,000 students across India and abroad, helping them build successful careers in the tech industry.
- → With centers in Bangalore, Pune, Mumbai, Hubli, Aurangabad, Tumkur, Trichy, Gwalior, Ranchi, and more, Apponix continues to expand rapidly across the country.
- + All our courses are designed to be job-oriented, practical, and aligned with real-world industry requirements.
- + Our training is delivered by 100+ highly experienced corporate trainers who are experts in their respective fields.
- → We offer flexible learning options, allowing students to choose between classroom sessions and live online classes.
- + Apponix is ISO certified and provides globally recognized certifications from AWS, Microsoft, and Google.
- → Over 3,000+ Apponix alumni are successfully placed in top MNCs with salaries above ₹15 LPA.
- → Our focus is on 100% hands-on learning, project-based assignments, and real-time case studies.
- → We provide complete career support including resume building, interview preparation, and placement assistance.
- → With a strong presence and proven track record, Apponix Academy continues to be a trusted name in professional IT training.



COURSE KEY FEATUERS





Guaranteed interviews



Designated Placement Advisor



Assured Job Placement



Interview Grooming Sessions



Classroom & Online Training



Mock interview sessions



Delivered by Industry Experts



Weekly Practice Assignments



Professional Resume building



Industry Relevant Syllabus











IABAC Authorized Partner

JAINx University Partner









VMWARE Authorized Partner

Most Promising Training Institute

MSME Certified

Sample Certificate





FULL STACK DEVELOPMENT SYLLABUS

1: Foundations of HTML: Building Blocks for Web Development

- HTML Introduction
- Basic HTML Structure
- HTML Editors Overview
- Understanding HTML Tags
- Text Elements: Paragraphs, Headings, and Text
- Formatting Text in HTML
- Creating Lists in HTML
- · Adding Images to HTML
- Working with HTML Tables
- Implementing HTML Forms
- Incorporating Media in HTML

2. CSS Essentials: From Basics to Responsive Design

- Introduction to CSS and Linking Methods
- Understanding CSS Properties: Key-Value Pairs and Network Tab
- Utilizing Comments, Colors, Backgrounds, and Images
- Text Properties: Font Size, Weight, and Style
- Exploring the Box Model: Padding, Margin, Border, and Main Content with Inspect Tab
- Introduction to CSS Positioning
- · Manipulating Height, Width, and Selectors
- Implementing Float (Left, Right), Z-Index, and Opacity
- · Responsive Design Principles and Media Queries
- Flexbox: A Responsive Design Approach
- Grid Systems for Responsive Design

Projects Covered:

- **Project 1:** YouTube Gallery (Modified iframe Version)
- Description: Create a custom-styled YouTube gallery using iframes, showcasing videos with personalized design and layout.
- Project 2: Sign-in Form Styling
- Description: Enhance the visual appeal and usability of a sign-in form through CSS, focusing on improving aesthetics and user experience.
- Project 3: Image Gallery Enhancement
- Description: Transform a basic image gallery into an aesthetically pleasing and user-friendly interface by applying advanced CSS techniques.



3. Project Management

Software Development Life Cycle

• Aligning project management with software development life cycle

Agile Methodologies:

- Understanding Agile principles and values
- Scrum and other Agile frameworks
- Sprint planning and execution

Waterfall Methodology:

- · Overview of the Waterfall model
- Pros and cons of Waterfall vs. Agile

Version Control Systems:

- Introduction to Git and GitHub
- Collaborative coding with version control
- · Branching and merging strategies

Task Management Tools:

- Overview of popular task management tools (e.g., Jira, Trello)
- · Creating and managing tasks
- Assigning and tracking progress

4. Bootstrap Essentials

- Framework Fundamentals: Bootstrap Introduction
- Building Bootstrap Templates Offline
- Responsive Design Basics: Containers, Rows, Columns
- Creating Navigational Elements: Navbar, Colors, Accordions, Alerts, Badges
- Utilizing Placeholders, Popovers, Progress Bars, Spinners
- Practical Application: Project Implementation with Bootstrap

Projects:

- Project 1: Develop Your Company Portfolio Website
- Project 2: Build a Mock Flipcart E-commerce Platform



5. Figma – Design Tool

- · Introduction to Figma
- Using Figma to create, share & test designs
- · Converting images to HTML templates

6. JavaScript Essentials: Core Concepts and Practical Applications

- Introduction to JavaScript
- Integrating JavaScript into HTML
- Fundamentals of Variables
- Data Types and Operations
- Conditional Statements in JavaScript
- Understanding JavaScript Objects
- Manipulating States and the Document Object Model (DOM)
- Functions and Event Handling
- Exploring JavaScript Arrays
- Synchronous and Asynchronous Programming Concepts
- Commenting in JavaScript Code
- Basics of Loops
- Mastering the Document Object Model (DOM)
- Advanced Concepts: Promises, Async/Await, Fetch, Axios
- Utilizing Spread and Rest Operators
- Deconstructing Arrays and Objects
- Module Management in JavaScript

7. TypeScript Topics

- Introduction to TypeScript
- Simple and Special Types in TypeScript
- Understanding TypeScript Generics
- Exploring TypeScript Interfaces
- Working with Object Types in TypeScript
- Mastering TypeScript Classes

Projects Covered:

- Project 1: Dynamic Calculator:Create an interactive calavulator with basic & advanced arithmetic operations.
- Project 2: Stopwatch Application:Build a stopwatch with start,stop & reset functionality.
- Project 3: Digital Clock Implementation:Develop a digital clock displaying hours, minutes & seconds.



- Project 4: Guessing Game Project:Design a game where users guess a randomly generated number within a range
- Project 5: Geolocation Tracker: Develop an app to track & display the uses current location on a map.

8. ReactJS Essentials: Key Concepts and Applications

- Introduction to ReactJS
- Exploring the State of JavaScript Survey
- Building React Web Apps
- Grasping ReactJS Fundamentals
- Utilizing Fragments, Hooks, and React Router DOM
- Learning MUI and Its Setup
- Integrating MUI Tabs
- Managing Props in React
- Creating UI Components for Social Media Sharing

Projects Covered:

- Project 1: Enhancing your company Portfolio website
- Project 2: Enhance Fake Flip-Cart ecommerce website

9. Web Hosting and GitHub Collaboration

- Understanding Web Hosting
- Introduction to GitHub
- Repository Management: Creation and Merging
- Collaborative Workflows: Pushing and Pulling Requests
- Utilizing Gh-pages for React Projects

10. Mastering Git and GitHub Essentials

- Introduction to Git
- Repository Workflow Basics
- Branch Management
- Leveraging GitHub for Version Control
- Essential Git Commands
- Understanding Staging in Git



11. MongoDB Database Essentials

- Database Fundamentals Overview
- MongoDB Installation
- · Configuring MongoDB
- CRUD Operations: Create, Read, Update, Delete
- Schema Creation
- Installing MongoDB Compass

12. MySQL Database Essentials

- MySQL DB Fundamentals
- MySQL vs. MongoDB: A Comparative Analysis
- Setting Up MySQL DB: Installation
- Database Configuration
- Database Creation in MySQL
- Table Creation in MySQL
- CRUD Operations in MySQL: Create, Read, Update, Delete

13. Node JS Topics

- Node.js Basics: Getting Started
- Installation and Configuration of Node.js
- · Working with Modules in Node.js
- Creating Custom Modules in Node.js
- Exploring Built-in Modules in Node.js
- Integrating Third-Party Modules in Node.js Projects
- Utilizing NPM (Node Package Manager) Effectively
- Managing Dependencies: Creating Package.json
- Node_modules:Understanding the core structure



14. Express JS Topics

- Introduction & Installation of ExpressJS
- MVC & Serverless Architecture Concepts
- Configure CORS
- Understanding HTTP Methods
- Decoding HTTP Status Codes
- Schema Handling
- Working with Models & Controllers
- · Creating CRUD APIs
- Utilizing EJS for Views
- Working with Static Files
- Hosting with Cyclic

15. Google Firebase Console

- Introduction to Google Firebase
- · Configuring Firebase for Push Notifications
- Creating & Setting Projects
- Creating Tokens
- Sending Push Notification

16. Email Authentication

- Introduction to OATH Authentication Tool
- Installing OATH Package
- Authentication with Email & Google

17. SMS & WhatsApp Configuration

- Setting up with Twilio
- Sending SMS using Twilio
- Sending WhatsApp Message

18. Implementing Payment Gateway

- Understanding Payment Gateway Systems
- · Setting up with RazorPay



JAVA AND SPRING BOOT

1. Introduction

- Java Language & Java Platform
- Java Technologies
- · History of Java
- Execution Model of Java
- · First Java Program
- The JDK Directory Structure
- IDE
- Similarities between C & Java
- Differences between C & Java

2. Standard Edition of Java

- JDK
- PATH
- CLASSPATH

3. Data Types

- What are Data Types?
- Int
- Float
- Char
- Double
- Boolean
- Short
- Long
- Byte

4. Methods

- · What are Methods?
- Method Structure
- Declaration of Methods
- · Calling of Methods
- Defining Methods
- Method Parameters Scope
- Why Static Methods?



5. Control Flow Statement

- What are Control Flow Statements?
- If Statement
- Else If Statement
- Conditional (Switch) Statements

6. Operators

- · Arithmetic Operators
- · Relational Operators
- Logical Operators
- Conditional Operators

7. Loops

- For Loop
- · While Loop
- · Do While Loop
- Break Statement

8. Object Oriented Programming (OOPs)

- Class & Object
- Encapsulation
- Attributes (Properties)
- Operations (Methods)
- Reference vs Object
- Real-time Object Oriented Examples

9. Constructor

- No Argument Constructor
- Parameterized Constructor
- Constructor Overloading
- · Explicit vs Implicit Default Constructor

10. Wrapper Classes Accessibility Mode

- Private
- Protected
- Default
- Public



11. Inter-Object Communication

- Message
- · Message Passing
- Message Sender
- · Message Receiver

12. Arrays

- What is an Array?
- · Declaring an Array
- Initializing an Array
- One Dimensional Array
- Two Dimensional Arrays
- Multi-Dimensional Arrays

13. Static Modifier

- Static Variables
- Static Methods
- Static Blocks
- Static Classes

14. Inheritance

- Inheritance in Java
- Use of Inheritance
- Single Inheritance
- Multi-level Inheritance
- Hierarchical Inheritance
- Hybrid Inheritance
- · Method Overloading
- · Method Overriding
- Super Class-Sub Class
- Abstract Classes
- Abstract Methods



15. Polymorphism

- Static Polymorphism
- Dynamic Polymorphism
- Static vs Dynamic Binding

16. Interface

- Interfaces vs Abstract Class
- · Role of Interfaces in Real-Time
- · Interfaces Inheriting from Other Interfaces
- Declarative Multiple Inheritance using Interfaces

17. Packages

- What is a Package?
- Advantages of Packages
- Types of Packages
- Naming Convention
- Steps for Creating Packages
- The Import Statement
- Static Imports
- CLASSPATH and Import
- Defining Packages
- Scope of Packages

18. String Handling

- String
- StringBuffer
- String Handler

19. Exception Handling

- Types of Errors
- Need of Exception Handling
- Try, Catch, Throws, Finally
- Try with Resources
- Exception Hierarchy
- User Defined Exceptions



20. IOStreams

- · Byte-Oriented Streams
- Character-Oriented Streams
- Java.io.File Class
- Object Serialization

21. Multi Threading

- · Multi-tasking vs Multi-threading
- Life Cycle of Thread
- Java.lang.Thread vs Java.lang.Runnable
- Developing Multithreaded Applications
- Synchronization
- Deadlock
- Inter-thread Communication

22. JDBC

- Introduction to JDBC
- JDBC Architecture
- Types of JDBC Drivers
- Creating a Database & Table
- Getting Information from Database
- Obtaining Result Set Information
- Connecting a Java Program to DB
- Prepared Statement & Statement Classes in Java
- Inserting, Updating & Deleting Data

23. Java Servlets

- What is a Web Application
- Java Servlets
- Servlet Lifecycle
- Servlet Context
- Session Management
- Building the First Servlet
- · Deploying the Servlet



24. Spring Boot

- REST API & Web Service Creation
- Integration with JDBC Template
- Integration with Hibernate

25. JSP

- What is a JSP Page
- Basic HTML Tags
- JSP Tag Library
- JSP Page Lifecycle
- · Creating First Dynamic Web Page

26. MVC Architecture

- Introduction to MVC
- MVC Architecture
- Advantages of MVC
- Three-Tier Architecture

27. Hibernate Framework

- Technologies for Persistency
- · Introduction to ORM
- · Hibernate Architecture
- Hibernate API
- · Configuration Properties
- Inheritance in Hibernate
- Component Mapping
- Collection Mapping
- · One-to-Many, Many-to-Many Relations
- HQL (Aggregate Function, Clauses, Criteria)

APPONIX academy

OUR RECENT PLACEMENTS



Ms. Apoorva Sanikop
CAPGEMINI
FULL STACK DEVELOPER



MR. SATISH

TATA CONSULTANCY SERVICES

SOFTWARE ENGINEER



MS. SWATHI
NEXENSATEL LLP
FULL STACK DEVELOPER



MS. AMRUTHA H V
V-ALIGN TECHNOLOGIES PVT LTD.
SOFTWARE DEVELOPER



MR. SHUBHAM UMAKANT MALALE
STOIC AND SALAMANDER GLOBAL CORPORATION
SOFTWARE DEVELOPER



MS. DEIMAPHISSHISHA NONGKSEH

CONNECT DIGITAL

PYTHON DEVELOPER



MR. SUSHIL TORASE
BLUENET VENTURE PVT LTD
BACKEND DEVELOPER



MS. AKSHYA U
ALBINEV GROWTH ANALYTICS CENTER
FRONTEND DEVELOPER



MR. ABHISHEK NATIKAR ISONVIZ ENTERPRISES JAVA DEVELOPER



MR. SACHEEN SHINNUR
BRAVERYA ENGINEERING & SERVICES
SOFTAWARE DEVELOPER



Mr. Vijay Kumar BIRLASOFT LIMITED ORACLE DEVELOPER



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PYTHON DEVELOPER

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OUR ALUMNI WORKING IN







