

```
float r;  
float area;  
  
printf("Input value of Radius : ");  
scanf("%f", &r);  
  
area = (M_PI * ( r * r ) ) / 2;  
  
printf("\n Area of the semicircle: %.2f\n\n", area );  
  
return 0;  
  
// Hexagon Size  
int HexagonSize;  
scanf("%d", &HexagonSize);  
  
printf("Enter number for Hexagon size : ");  
scanf("%d", &HexagonSize);  
  
for(r=0; r<HexagonSize; r++)  
{  
    for(s=0; s<=HexagonSize-r; s++)  
        printf(" ");  
}
```

## JAVA FULL STACK DEVELOPER COURSE With Job Interview Guarantee (JIG)\*

## A Word from the CEO



### Mr. Ram Tavva

– CEO and MD of Excelr Solutions

*An alumnus of IIM-C and a PMP-certified trainer with 25+ years of experience.*

Whether you are looking for a pay raise, a career transition, or a new job, upskilling is an unceasing necessity. As a training provider, we understand that this need constantly changes with time and technological evolution, and we tailor courses accordingly. We believe that complete learning is a blend of theory and practice. Hence, we offer the kind of post-training support for your assignments and projects that makes us stand apart from our counterparts.

“Our mission is to accompany people in their journey to excellence and empower them to realize their dream careers.”

## Our Greatest ACHIEVEMENTS



Best Training Institute by  
SiliconIndia on Analytics 2015



Top 20 Most Promising  
PMP Training Institutes in India 2018



Top 20 Most Promising  
Business Intelligence(BI) Solution  
Provider Companies.



4.8 Stars on Google Reviews  
for our Training and Support.



## We're a Deloitte Technology Fast 50 India Winner



We have been recognized as one of the fastest growing technology companies in the Deloitte Technology Fast 50 India Award Ceremony 2022.

This achievement for ExcelR, which has been accompanied by a staggering average growth rate of 257% in three years, marks an incredible milestone and has propelled our transformation into a global company.

This reflects our dedication towards “Raising Excellence” and demonstrating the company’s professionalism. Our top priority is to provide unparalleled training and consulting to students and professionals in India and abroad so they can shape their future in the right direction.

On the heels of this good news, we are more committed than ever to creating a state-of-the-art platform for all of you to succeed in your career and come out with flying colors.

## We're Also a Partner of FutureSkills Prime, A MeitY-**NASSCOM**® Digital Skilling Initiative

We have successfully collaborated with FutureSkills Prime, a first-of-its-kind partnership between MeitY and NASSCOM, to build a digital skilling ecosystem and make India a global digital talent in emerging technologies.

This collaboration will facilitate continuous learning and knowledge enhancement of graduates and working professionals with regard to their aspirations and aptitude, improving their employability.

We’re proud to share in and contribute to the national interest, and we will continue to play a significant role in the digital upskilling revolution in the years to come.





# Full Stack Developer Course Overview

Our 250+hour Full Stack Development Course is an exhaustive program that covers the wide-ranging aspects of software development. Replete with labs, projects, hackathons, and bootcamps, this training program gives any budding developer a lucid understanding of **Java programming, Spring framework, Javascript, HTML, CSS, SQL**, and more. The course highlights, curriculum, and value-added courses presented here will tell you why you should go for a course with us right away!



## What is the Full Stack Developer Course?

Developing software requires knowledge of both the front end development, the visual look and feel of the application, and the back end development, wherein the logic and infrastructure behind the screen are set up.

While there are experts for each end individually, our full stack development course intends to help learners gain proficiency in developing end-to-end software solutions, that involve scripting both the client and server sides of a software application.

They take care of how a piece of information is displayed, how it is stored and accessed from a database, how the server, network, and hosting environments are, and so on. It is no wonder that a majority, close to 33.48%, of professional developers in the industry classify themselves as full stack developers.\*

## Why Become a Full Stack Developer?

# #7

of top 10 Most Lucrative and Highest Paying Tech Jobs

# 1 lakh +

Job Vacancies in India

# 8.7 LPA

Full Stack Developer freshers' average salary

# 74%

Job Satisfaction

# 27%

Job Growth for Freshers by 2024

Source(s): Analytics Insight, Naukri, Ambition Box, Payscale, BLS



## Top Hiring Companies

facebook

NETFLIX

airbnb

IBM

Gartner

Cognizant

X

Microsoft

tcs TATA CONSULTANCY SERVICES

Infosys

wipro

Mindtree

Tech Mahindra

accenture

SIEMENS

BOSCH

ORACLE

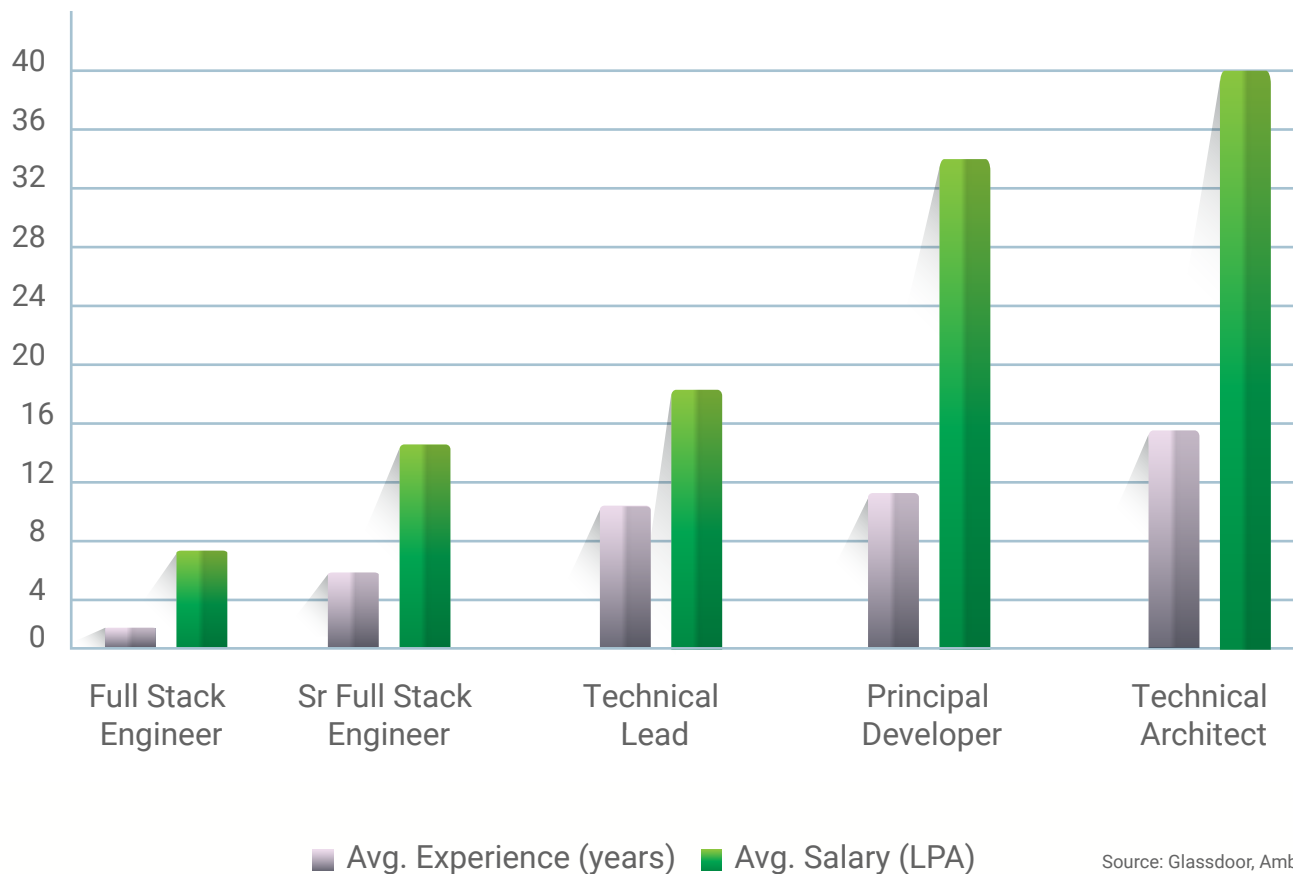
AMERICAN EXPRESS

HARMAN

and many more....

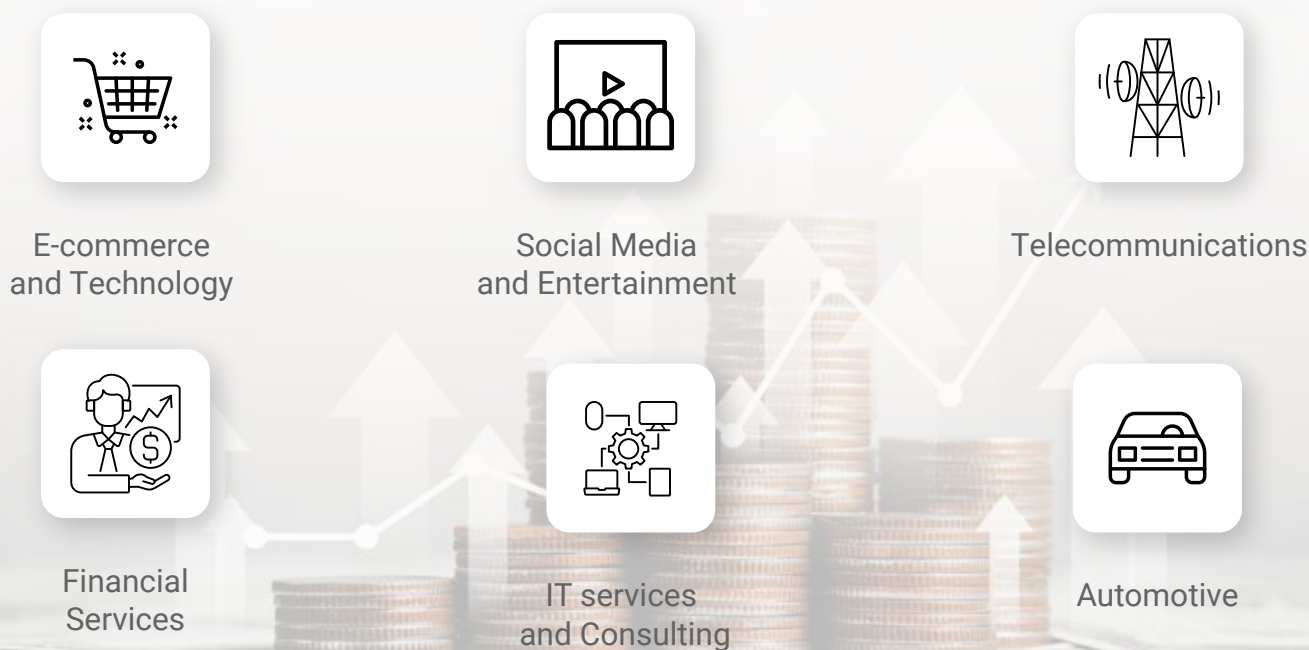
Source(s): Naukri

## Career Trajectory and Salary Trends:

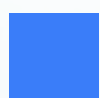
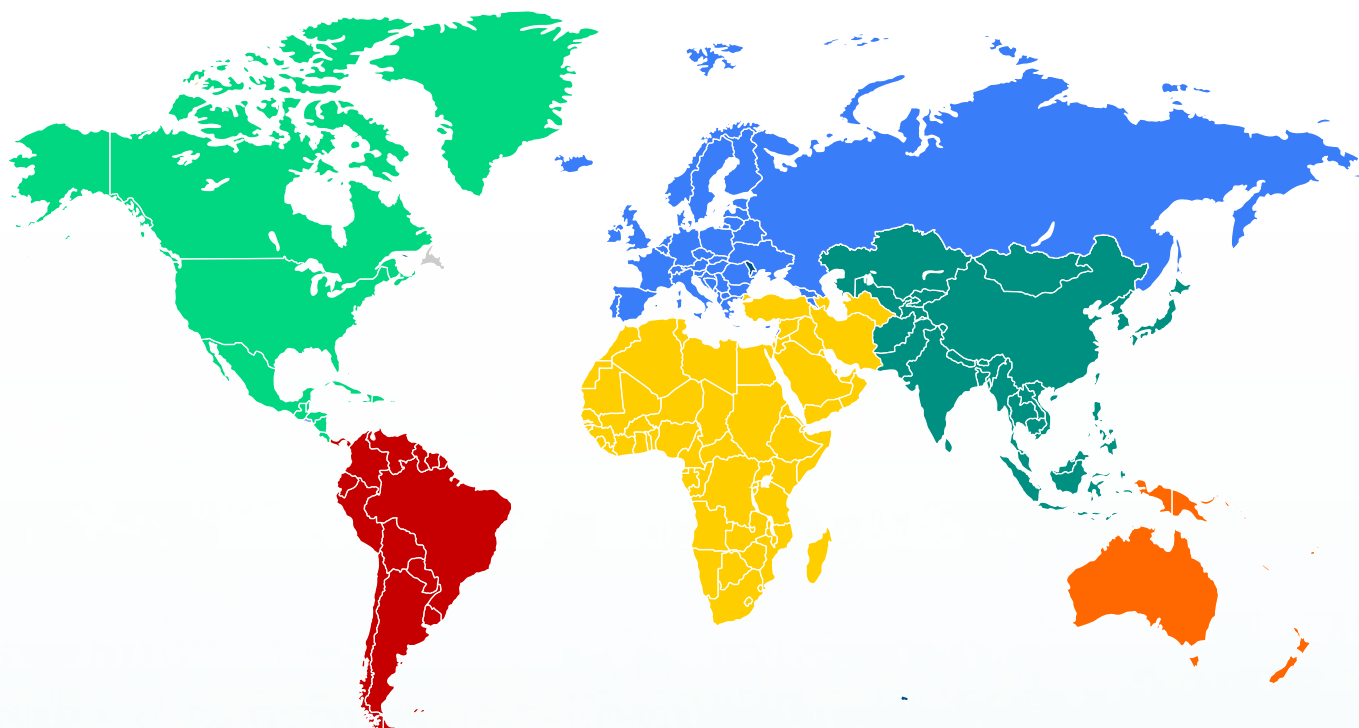


Source: Glassdoor, AmbitionBox

## Top Hiring Industries



## Demographic Analysis of Developers



**45%** Europe



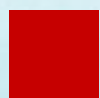
**26%** North America



**15%** Asia Pacific



**7%** Middle East & Africa



**4%** South America



**3%** Australia & New Zealand

## Course Highlights

Our Full Stack Development Course is a comprehensive program that takes you from the classroom to the workplace. Once you complete your training, internship, and assessments successfully, you'll get into the placement pool. Once in it, you'll have **guaranteed job interviews** until you receive the first job offer. We have tie-ups with 2000+ companies for this job interview assurance program.



Guaranteed job interviews  
until you get placed



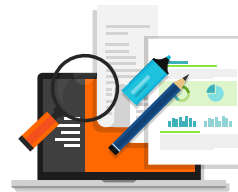
250+ Hours of Blended Learning



100+ hours of internship  
experience with AiVariant



10+ bootcamps



6+ Capstone Projects

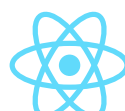
## Tools Covered



**Maven™**



## Skills Covered





## Value Added Courses

Our course curriculum doesn't end with merely the core concepts of the Full Stack Web Development Course. We also provide value-added courses, which go hand-in-hand with the core concepts of the course and prove essential in the world of full-stack development. This will help you gain a comprehensive skill set, which will give you a competitive edge over your peers during interviews.

### UI/UX Fundamentals



The role of UX/UI Designers is to deliver an outstanding user experience by providing exceptional and intuitive application design. As a developer, you will receive an overview during the session on how prototypes are created and the various design tools used, enhancing your ability to collaborate effectively with designers and create user-centric applications.

### CSS Preprocessor (Intermediate + Advanced)



A CSS preprocessor is a scripting language that extends the default CSS capabilities by incorporating modern programming-language methodologies. In this course, we cover topics such as variables, operations, functions, inheritance, and rules for selector nesting, empowering you to write more efficient and maintainable stylesheets, and ultimately improve your front-end development workflow.



### Responsive Web Design Frameworks using Material UI

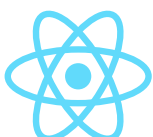
Material UI offers a comprehensive suite of UI tools to help you ship new features faster. Gaining knowledge of Material UI enables you to create visually appealing and responsive web applications with ease.

### API creation using ExpressJS and MongoDB



ExpressJS is one of the most popular HTTP server libraries for Node.js. When we use Express, we can simplify API development by abstracting away the boilerplate code required to set up a server. This simplification leads to faster development, improved code readability, and greater simplicity, allowing you to build robust and efficient back-end services.

### React



React is a JavaScript-based UI development library, used to create modular user interfaces and encourages the development of reusable UI components for displaying dynamic data, streamlining your front-end development and making your web applications more modular and maintainable.

# Maven™

## Maven and Ant

Maven is a framework that can also act as a dependency management tool. It is a declarative build tool, so everything can be defined in the pom.xml file. Ant, on the other hand, is a tool that doesn't have formal conventions. If you are using Ant, you have to specify what to do in XML files; therefore, it may not be as versatile for different types of project setups. Understanding both tools equips you with the skills to effectively manage dependencies and build processes in various project environments. Hence, we offer both as value-adds!



## DevSecOps Overview

DevSecOps is an extension of the DevOps model in which developers, security, and operations teams collaborate closely throughout all stages of the software development lifecycle (SDLC) and the continuous integration/continuous deployment (CI/CD) pipelines. Learning DevSecOps principles enhances your ability to develop and deploy software securely, aligning your development practices with modern security requirements.



## Application Deployment on Cloud

Cloud deployment is the process of deploying an application through one or more hosting models, including Software as a Service (SaaS), Platform as a Service (PaaS), and/or Infrastructure as a Service (IaaS), that leverage the cloud. We cover the introduction part of AWS, Docker, Jenkins, and Kubernetes, enabling you to harness the power of cloud computing for scalable and efficient application deployment.

## ChatGPT



ChatGPT is a natural language processing tool driven by AI technology that enables you to engage in human-like conversations and much more with the chatbot. This language model can answer questions and assist you with tasks, including composing emails, essays, and code. Our trainer will demonstrate how to use ChatGPT in your day-to-day development enhancing your productivity by automating various aspects of your workflow.

## Python



Python is a highly popular general-purpose, interpreted, interactive, object-oriented, and high-level programming language. It is relatively easy to learn, making it an excellent choice for beginners looking to start learning a programming language. Python is widely used for web development, data analysis, and automation, thus, knowing it is sure to expand your programming repertoire for diverse tasks



## Industry-Relevant Projects

### 1. To-Do List App

**Project Overview:** Build a simple to-do list app using ReactJS for the front-end and Java for the back-end. The app should allow users to create and manage tasks, mark tasks as complete, and delete tasks

**Level: Beginner**

### 2. Recipe App

**Project Overview:** Build a recipe app using ReactJS for the front-end and Java for the back-end. The app should allow users to search for recipes, view recipe details, and save their favorite recipes.

**Level: Beginner**

### 3. E-commerce Store

**Project Overview:** Build an e-commerce store using ReactJS for the front-end and Java for the back-end. The store should allow users to browse products, add products to their cart, and checkout.

**Level: Intermediate**

### 4. Weather App

**Project Overview:** Build a weather app using ReactJS for the front-end and Java for the back-end. The app should allow users to enter a location and get the current weather conditions for that location.

**Level: Advanced**

### 5. Expense Tracker

**Project Overview:** Build an expense tracker app using ReactJS for the front-end and Java for the back-end. The app should allow users to enter their expenses, categorize them, and view reports on their spending.

**Level: Advanced**

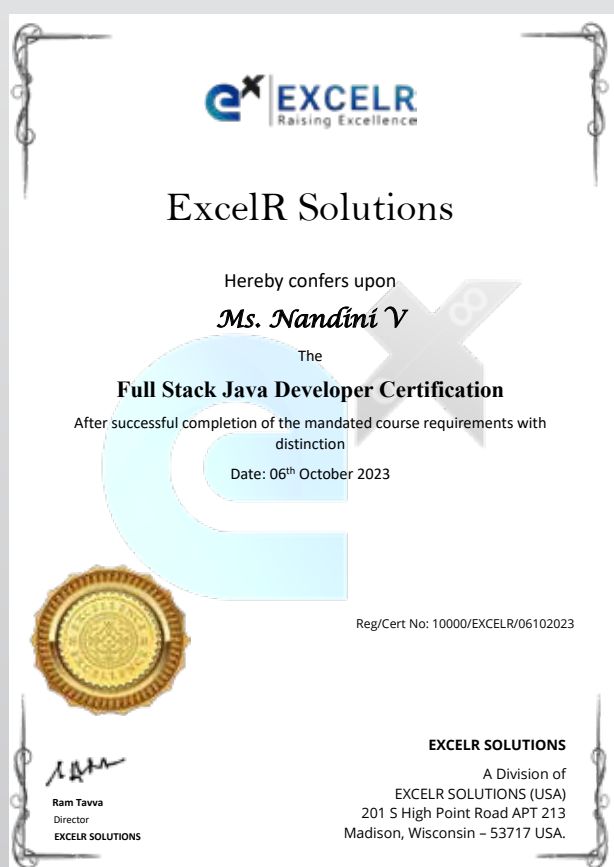
### 6. Income Tax Application

**Project Overview:** Build an income tax application using ReactJS for the front-end and Java for the back-end. The project will also involve choosing an appropriate database, designing an API, and deploying the application to a server.

**Level: Advanced**

## Your 2-in-1 Certifications

### Certificate from **ExcelR**



### Internship Certificate from **AiVariant**







Curriculum:

## Java Full Stack Developer Course

### Introduction

- What is Fullstack
- 3-tier Architecture of FullStack
- What are the Requirements to build End to End Web Application?
- What are the Challenges in modern web development?

### Core Java- Back End

#### Java Introduction

- Introduction To Java
- Java History
- Why Java , Features of Java

#### Installation

- Platform-dependent, platform- independent,jdk, jre ,jvm, installation of JDK AND EDIT ++

#### Structure of java program And Tokens

- Structure of java, Difference between print() and println() , Tokens

#### DataTypes And Variables

- Datatypes and variables, Scope of Variable

#### Operators

- Types of Operators

#### DynamicRead and Decision making statement

- Dynamic Read, Decision Making statements(if, if-else, if-else ladder, switch)



## Looping-Statements

- While, for-loop,do- while loop, nested loop with examples

## Logical Programming based on

- Decision Making statements
- Looping-Statements
- Logical Programs interview based
- Pattern printing program

## Methods

- Methods (types of methods), method call flow,calling method vs called method

## Static members

- Static (method, variable, initializer),class loading process.

## Non-static members And Constructor

- Non-static(method, variable, initializer),Constructor, class and object

## OOP's

- Encapsulation , Data-Hiding, private modifie ,Getter and Setter Methods
- Inheritance (types of inheritance, diamond problem)
- Polymorphism (method overloading, method overriding)
- Abstraction, Interface

## Object class

- Introduction to Object class (overriding toString(), equals(), hashCode())

## Arrays

- 1-D Array,Arrays with example
- Logical programs on Array
- Multidimensional Array, Comparable and Comparator interface



## Strings

- String, StringBuffer, StringBuilder classes with examples
- Logical programs on Strings

## Exception handling

- Exception and its types
- Exception-Handling-Mechanism (try-catch), exception object propagation, Checked-Exception
- Unchecked-Exception, Custom-exception, throw vs throws keyword, finally-block

## Wrapper class, Introduction to Collection

- Wrapper class, Collection introduction

## Collection

- List(ArrayList, LinkedList)
- Iterator, ListIterator, for-each loop
- Set(HashSet, TreeSet), Queue, Stack
- Map interface

## MySQL

- SQL introduction, installation of MySql workbench
- Data types, Steps to create table, constraints (null, not null, unique)
- Constraints (check, default, primary key, composite primary key, foreign key)
- On delete cascade, alter statements, DML statement
- Sql built-in functions (row level, group function), where clause, having clause like operator, joins, Stored-Procedures

## JDBC

- J2EE, JDBC, JDBC Introduction, JDBC Architecture, Database Overview, JDBC basics & example Resultset, Prepared Statement, Callable Statement



## Hibernate

- Hibernate Introduction
- Hibernate Architecture
- Hibernate Association Mapping
  1. One to One Mapping
  2. One to ManyMapping
  3. Many to OneMapping
  4. Many to Many Mapping,
- Hibernate Session
- Hibernate SessionFactory, Lazy\_loading, Early-Loading
- Hibernate Configuration, Hibernate with Annotation, Hibernate CRUD

## Spring

- Spring Framework
- Spring Framework Introduction
- Spring Basics
- Inversion of Control
- Dependency Injection, Beans Scope(Singleton,Prototype,Request,Session,Global-Session)
- Autowiring

## Spring MVC

- Spring MVC Architecture, Spring Annotations, Spring MVC Basics , Spring MVC with Maven, creation of project
- Spring mvc first program with configuration, methods used in springMVC

## Spring Boot

- Spring Boot Introduction
- Spring Boot Basics
- Why Spring Boot
- Spring Boot Features
- STS installation, creation of project, Spring-Initializer
- Deploy Spring Boot Applications on External Tomcat Server
- Spring Boot – Common Application Properties (application.properties)
- Spring Boot, Hibernate with RESTFul Web Service
- Spring Boot, Spring Data with RESTFul Web Service
- Rest api's and data jpa
- Service, Controller, DAO, DTO layers
- Spring Boot, Hibernate CRUD Application, Spring Boot, Spring Data JPA CRUD Application,
- Spring Boot, Hibernate, MySQL, Project Lombok CRUD Application





# HTML(FRONT END)

## Introduction to Web

- Overview of Web And web application
- Overview of Mobile and mobile applications
- Web VS Mobile
- Web Designer vs HTML Developer

## Core Concept of html

- What is form and why should we create a form? Form tags and form attributes (form, form attributes, form methods, actions, enc-type, autocomplete, autofocus, novalidate, readonly, required)

## HTML 5

- HTML 5 Features with Examples
- New structural elements <article> ,<header>,<footer>,<nav>,<section>,and<figure>
- New form control calendar, date,time,email,url,search
- New HTML5 API's
- HTML Geolocation, HTML Drag And Drop, Web storage
- New function for embedding audio(<audio>), video(<video>), graphics(<svg> and<canvas>)
- Client-side data storage
- HTML 5 validations Attributes



# CSS

## Introduction & Selectors

- What is CSS
- Why Use CSS?
- How is CSS Used?
- Creating and Linking a CSS StyleSheet
- How To Test A Stylesheet

## Selectors

- What is a selector?
- The Universal/Global Selector
- TheTag/Element Selector
- The ID Selector
- The Class Selector
- The Attribute Selector
- The Relationship Selector
- Pseudo Selector
- Group Selector
- Specificity & When To Use Selectors
- What are Properties?
- The CSS General Rule

## Coloring & formatting, Fonts & text manipulation

- Types of Colors
- Coloring Text
- Background colors
- Images/URLs in CSS
- Other background Properties
- Opacity / Transparency
- Gradients
- Fonts & Text Manipulation:
- Introduction to types of units
- Text Manipulation
- Font Size, Bolding & Style
- Font Families
- Including external fonts W/Google Fonts
- Using External Fonts

## Layout

- Introduction
- The Box Model
- Padding
- Border
- Margin
- Changing Content Size
- CSS Borders
- Margin & Padding
- Float & Display Types

## Flexbox

- Introduction
- Flexbox Components
- Creating a Flex Container
- Flex Direction & Wrap
- Content Alignment
- Flex Item Order
- Shrink, Grow & Basis
- The 'Flex' Property
- Item Alignment

## Grid

- Grid vs Flexbox
- Introduction
- Differences
- Creating a Grid
- Template Columns & Rows
- Justify & Align Grid
- Row & Column Gaps
- Column & Row Lines
- Grid Area



# Javascript- Front End

## Introduction to Javascript

- What is Javascript? Use of javascript?
- Trend of Javascript?
- Types of Implementing Javascript?
- Inline
- Internal
- External
- What are the Datatypes? Example for each one of them?
- Variables & Constants?
- What is Hoisting?
- Alert, Prompt and Confirm Modals

## Operators

### Operators

- What are Operators ?
- Types of Operators
- Examples for each one of them

## Decision Making Statements

- What is decision making
- Different types?
- Examples for each one of them

## Loops

- What are loops?
- Usage?
- Types of loops?
- Entry controlled vs exit controlled loops
- Examples for each one of them



## DataStorage Techniques & DOM Manipulation

- What are the types of data storage?
- Strings & Methods
- Mutable and Immutable Strings/Objects
- Arrays & Methods
- Objects & Methods
- Array of Objects?
- Object configuration and properties

## DOM & Dom Manipulations

- What are DOM & Dom Manipulation Methods?
- Types of DOM Manipulation Methods?
- Dom Selectors
- `getElementById()`
- `getElementsByTagName()`
- `getElementsByClassName()`
- `querySelector()`
- `querySelectorAll()`

## Adding Css using Javascript

- `Document.getElementById('idvalue').style.property = 'value';`
- `Classlist`
- `addClass`
- `removeClass`
- `innerHTML`
- `Document.write()` vs `innerHTML`

## DOM

- Attaching Event
- `AddEventListener()`
- Detaching Event
- `RemoveEventListener()`
- Manipulating Elements
- `CreateElement()`
- `appendChild()`
- `removeChild()`
- `replaceChild()`

## Adding Css using Javascript

- `Document.getElementById('idvalue').style.property = 'value';`
- `Classlist`
- `addClass`
- `removeClass`
- `innerHTML`
- `Document.write()` vs `innerHTML`
- Manipulating Attributes
- `setAttribute()`
- `removeAttribute()`





## Functions

- What are Functions in JavaScript?
- When and where to use Functions?
- 6 Ways of declaring Functions
- Arrow Functions Advantages and Disadvantages
- Immediate Invoke Function
- Declare Function as Class/Expression
- setTimeout and setInterval
- Generator Functions
- Reusable Functions
- Function Advantages and Disadvantages

## Forms & Events

- What are forms and validations?
- Events and Event handling
- Types of events
- Keyboard events
- Keyup
- Keydown
- Keypress(deprecated)
- Mouse events
- Click
- Dblclick
- Hover
- Mouseover
- Mousemove, mouseleave
- Contextmenu
- Form events
- submit
- Blur
- Focus
- Reset
- Change
- Page events
- Load
- Scroll resize
- Types of form validations – field validations – form validation
- Regular expressions – form validation using regex – form validation without regex



## GIT

- Fast introduction to GIT commands
- Simple Rebase Example, Setup for rebasing conflict
- Abort a Rebase
- Rebase Conflict and Resolution
- Pull with Rebase (GitHub)

## React

- React Introduction
- What is React?
- React Project Setup/React Boilerplate
- Variables and Datatypes
- Node, Module, Package, Node Package Manager(NPM)
- Create React App

## React Basics

- Virtual DOM?
- Loops, Operator and Conditions?
- Array and String Methods

## JSX

- What is JSX Element
- Commenting a JSX element
- Rendering a JSX Element
- Style and className in JSX
- Injecting data to a JSX Element

## Components

- Big picture of components
- JavaScript function vs Class
- Creating React Component
- Class Component
- Functional Component
- How to create Reusable Components



## Props

- Props in Functional Component
- What are props?
- Props object
- Destructuring props
- PropTypes
- DefaultProps
- How to share data between components using Props

## State

- What is State in React
- How to set state in Functional Component
- How to set state in Class Component
- How to reset the State in class/functional

## Navigation

- What is a React Router ?
- BrowserRouter
- Route
- Switch
- NavLink
- Nested Routing
- Redirect
- Prompt

## Forms

- Form input fields
- Form Data Binding
- Form Validations
- Styling Forms

## API Request

- Async Request in React - Axios/Fetch
- How to do HTTP/API requests?
- GET, POST, PUT and Delete using Axios and Fetch

## LifeCycle Hooks

- Functional component Lifecycle hooks
- Class component Lifecycle hooks
- Refs and useContext



# Value Added Course

## Core Java- Back End

### Map

- Set(Hash Set,Tree Set)  
Map(Hash Map, Tree Map, Hashtable)
- Collection Framework Advanced Concepts  
Comparable Interface

### Thread

- Concept, Lifecycle
- Extends Thread
- Implement Runnable Interface
- Thread Priorities
- Thread Methods

### Multithreading

- Data inconsistency
- Deadlock

### Thread Synchronization

- Synchronization
- Object Locking
- Inter Thread Communication

## Programming

### Logical programming

- factorial
- sum of digits
- number of digits
- sum of even digits
- count number of digits
- reverse a number
- palindrome
- factors of the number
- prime or not
- swap two numbers with temp
- swap two numbers without temp
- fibonacci series
- armstrong number
- strong number
- perfect
- happy number
- sunny number
- xylem and phloem
- leap year or not
- check whether character is uppercase or lowercase or number or special character



## Pattern printing

- Twenty possible pattern printing program

## Array based programs

- WAP to copy all the elements of one array to another array.
- WAP to find the frequency of each element in the array
- WAP to print duplicate elements of an array
- WAP print the array in reverse
- WAP sum of even numbers in given array
- count the number of odd numbers from an array
- largest element an array
- smallest element an array
- linear search algorithm
- binary search algorithm
- bubble sort
- sort the elements in ascending order
- sort the elements in descending order
- second largest number from an array
- third largest number from an array
- to initialize an array of integers with 10 elements.
- print all the elements of an array
- find the sum of elements in an integer array.
- average of elements in an array
- check if an array contains a certain value

## String based programs

- reverse of a string.
- String is palindrome or not
- count the number of special characters in string
- repeated characters in string
- WAP to display number of lowercase, uppercase, special symbols, spaces, digits in a string
- convert string uppercase to lowercase and vice versa
- count the total number of vowels and consonants in a string
- java program to remove all the white spaces from a string
- java program to replace the spaces of a string with a specific character
- java program to separate the individual characters from a string



## My SQL

- In, Between operator
- Null Values
- TOP,LIMIT
- Java Application Using JDBC Connectivity
- Handling SQL Exceptions
- DB Connectivity Steps
- Store Image in SQL
- Read Image in SQL

## Servlet

- Need of Server Side Programming
- Servlet Life Cycle
- Init()
- Service()
- doGet()
- doPost()
- Destroy()
- Servlet Hello World Application, 2.2.5 Web.xml Structure
- Servlet Directives- include(), forward(), sendRedirect()
- HttpServletRequest, HttpServletResponse in Servlet
- Servlet and JDBC Integration
- Servlet, HTML 5, MySQL, Tomcat using Real Time Login Application



## JSP

### JSP

- JSP Basics
- Creating dynamic Web content with JSP
- Scriptlet
- Declaration
- Servlet, JSP, MySQL, Tomcat, CRUD Application

## CSS- Front End

### Animation & Transitions, Media Queries

- The Transitions Property
- Transform property
- Creating Animations w/Keyframes
- Adding an Animation
- Animation Properties

### Media Queries in css

- Introductions
- properties

## Bootstrap- Front End

### Introduction to Bootstrap

- What is Bootstrap
- History of Bootstrap
- Versions of Bootstrap
- Popularity of Bootstrap

### Bootstrap Documentation

- Installing Bootstrap Locally
- Install or adding Bootstrap via Cdn link
- Adding Javascript cdn link



## Layout & Components

- BreakPoints
  - Extra small
  - Small
  - Medium
  - Large
  - Extra large
  - xtra extra large
- Containers
  - container- fluid
  - container
- Columns
  - column
  - row
- Gutter
  - Horizontal gutter
  - Vertical gutter
  - Row column gutter
  - No gutter
- Margins
- Padding
- Components in Bootstrap
  - Utilities
    - Background
    - Colors
    - Display
      - none
      - inline
      - inline-block
      - block
      - grid
      - flex
      - inline-flex
    - Float
      - float-start
      - float-end
    - Position
      - position-static
      - position-relative
      - position-absolute
      - position-fixed
      - position-sticky



## Flex

- Direction
  - flex-column
  - flex-column-reverse
  - flex-row
  - flex-row-reverse
- Justify-content
  - justify-content-start
  - justify-content-end
  - justify-content-center
  - justify-content-between
  - justify-content-around
  - justify-content-evenly
- align-items
  - align-items-start
  - align-items-end
  - align-items-center
  - align-items-baseline
  - align-items-stretch
- flex-fill
- flex grow & shrink

## Grid

- Grid options
  - Extra small (xs)
  - Small (sm)
  - Medium (md)
  - Large (lg)
  - Extra large (xl)
  - Extra extra large (xxl)
- Containers and rows
- Columns
- Responsive Breakpoints



## Javascript- Front End

- Error Handling
  - What are the types of errors in JS?
  - syntax errors
  - type errors
  - assignment errors
  - reference errors
  - others
- How to handle the errors?
- What is exception handling?
- Try block
  - catch block
  - finally block
  - throw block
  - custom error messages

## OOJS

- Object oriented Principles
  - Data abstraction
  - Data Encapsulation
  - ES5
  - Object Literal
  - Object Constructor
  - Es6+
  - Classical
  - Polymorphism
  - Operators Overloading
  - Function Overloading
  - Inheritance
  - Types of inheritance
  - Js Supported Types
  - Es5
  - Prototypal Inheritance
  - Es6+
  - Classical Inheritance
- Getter and Setter
- Spread and Rest Operators
- Closures
- Race Condition



- ES6 Concepts

- Strict Mode
- Module Export and import
- Block Scoping
- Template literals

- JSON

- Call Backs, Async Await and Promises
- Call, Apply and Bind

- Asynchronous JavaScript & Es6+ Features

- JSON Structure
- JSON Parse and Stringify
- ES5 vs ES6

- HTML 5 Features

- HTML5 Canvas
- HTML5 Web API's
- HTML5 Geo Tags, Drag and Drop
- Web Storage – Local vs Session
- Overview of PWA
- Web Service Workers
- Browser Tools – Chrome, Firefox and Edge

# Training Methodology

## 02

### Technical Presentations by Learners

Weekly technical presentation sessions by the learners, assessed and moderated by trainers

## 04

### Bootcamps & Case Study Analysis

Learners will work on bootcamps with real-life interview questions and case studies along with faculty

## 06

### Placement Preparation

Dedicated placement team will guide participants in preparing resume and LinkedIn profile, and also hold graded mock interviews

## 01

### Day-wise Agenda and Activities

Consisting of topics as per day-wise calendar, lab sessions for important topics, day-wise interview questions, and interview preparation practice tests in LMS

## 03

### Topic-wise Interview Questions

Multiple practice tests with questions from real-life interviews

## 05

### Graded Quizzes

Graded quizzes after completion of day-wise agenda and assignments

## 07

### Job Interview Guarantee (JIG)\*

Participants are eligible for JIG\* after being evaluated on technical presentations and clearing the graded quizzes.



## Why ExcelR?



### Jumbo Pass

Our Jumbo Pass is a first-of-its-kind complimentary ticket in the industry to give you access to attend one classroom and unlimited live virtual classes for the next 365 days.



### Top-Notch Faculty

Faculties are our strength. We have certified Manual Testing trainers with 12+ years of experience and have a strong passion for training as your trainers. Again, the trainers are always at your disposal to assist you throughout the learning process.



### Dedicated Post-Training Support

Learners gain hands-on experience when they set out on assignments or case studies. This is where our 1:1 mentorship is at its finest.



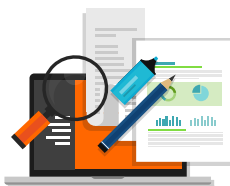
### 100% Placement Assistance

Our training doesn't stop with theory and practice. We also take responsibility to make you job ready. Our placement support is always inclusive of the course.



### Lifetime Access to Self-Paced Learning

There might be times when you need to refer to some topics in the future. Lifetime access to LMS will come in handy here! You can revise and recap them by going through the recorded sessions as and when you want.



### Industry-Based Course Curriculum

Considering the unmet gaps in the industry, our course modules are aligned to the tech trends and deal with all the essential aspects and tools of the Software Testing with Selenium.



### 4.8/5 Star Reviews on Google

Thanks to our learners who had been our driving force and the true measure of our success, without whom we wouldn't be a global leader in training.

## Placement Assistance

Our dedicated placement teams have a decade-plus of experience transitioning students from classroom to workplace. Here's how it goes:



### Resume Preparation Session

Our mentors will guide you through preparing your personalized resumes connecting your talents, skills, previous experience, etc.



### LinkedIn Profile Optimization

LinkedIn is the platform where you get the tickets to your dream job, and we help you optimize your profile there in the finest way so you bag the best salary in the market.



### Interview Preparatory Sessions:

We provide regular in-house boot camps and interview preparation sessions to help you develop your confidence and succeed during job interviews.



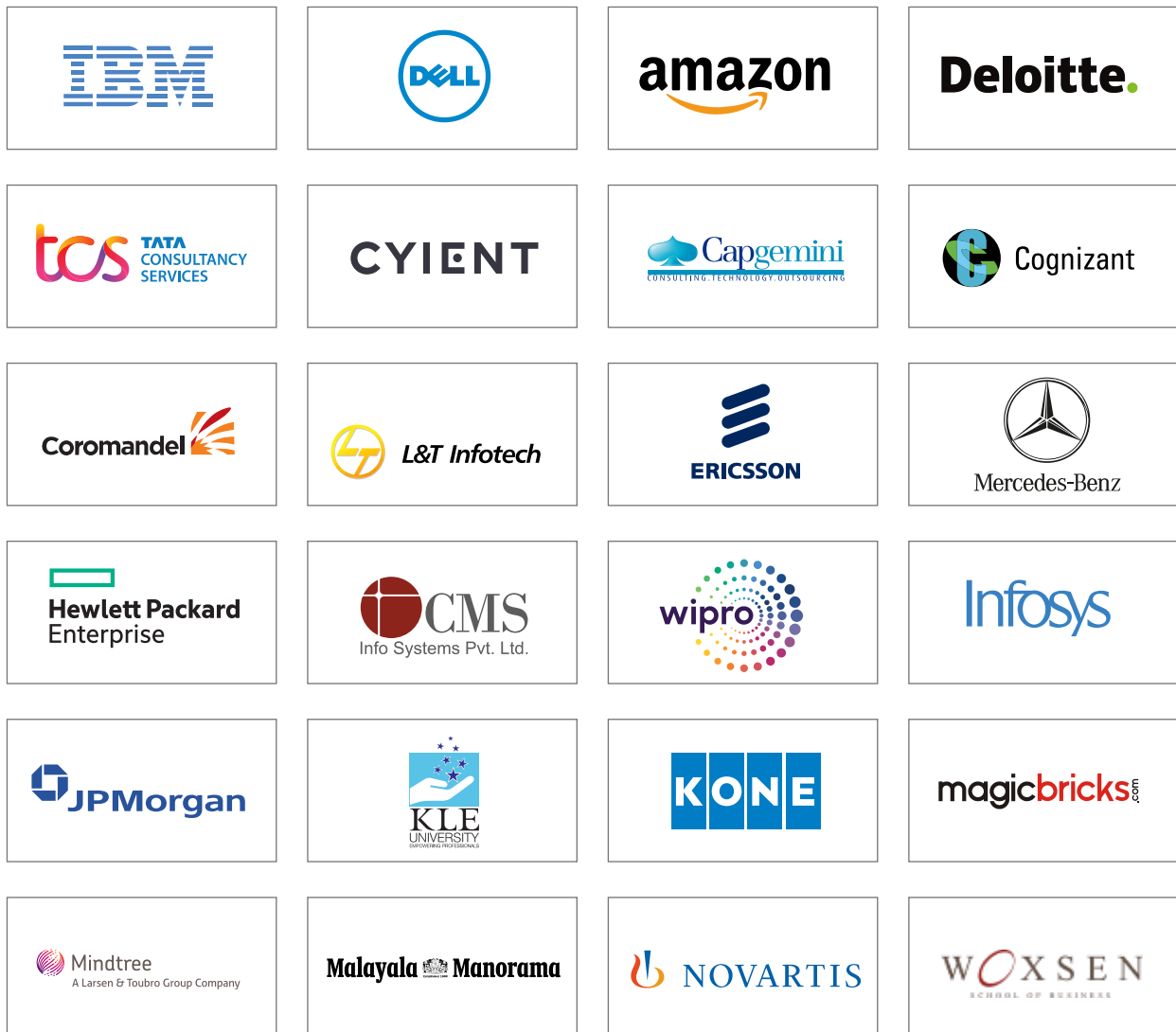
### Mock Interviews

A panel of industry experts will conduct a SWOT analysis and present you with the feedback and ratings of how you performed in the interview and the areas you need to improve.

## Academic Partners



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Kotak Mahindra Bank

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RBL BANK

Corporation Bank

For further information regarding EMI, please feel free to contact our career counsellors.

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