



# PODTEST.IN

Platform for Aspiring SDET's

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# Full-Stack Bootcamp

- Welcome to [World's first Real Full-Stack Bootcamp](#).
- [Most affordable program](#) in the entire Industry [[Check the last 3 slide for the Registration process, pricing & payment details](#)]
- [Covering 30 Different modules](#) as part of this bootcamp.
- Enrolment into the program would be based on Invitations, If interested, you will have to Register on our website <https://podtest.in> for the program & we will personally reach out to you to check your needs, explain the syllabus, advantages & when you get satisfied only then initiate payment process.
- Everything covered from scratch.
- [Suited for people with below needs](#):
  - Switching Career to Software Testing
  - Freshers/Intern
  - People in Manual Testing , wanting to switch to Automation Testing
  - Automation Engineers looking to become Full-Stack
  - People with career gap



# ♥ Alumni Status

- **Alumni Status & Advantage:** Enrolled Students will get access to all present & future recorded courses ever made on PodTest.in
- Currently we have high-quality in-depth recorded course for Java Basics, Selenium, HTML, CSSPath, XPath, DOM, Maven, TestNG, Git. [You will get access to them the next day you get enrolled.]
- As & when new modules are developed & created, those will also be made accessible to the students.
- It means, once you buy this course, you may never need to buy anything else.

**\*[This benefit will be provided to first few candidates only, so as quickly you get enrolled you become eligible for this benefit]**



# Bootcamp Details

- Daily Live classes [Monday to Friday 7PM-9PM IST ]
- Batch[Online] starts on: 4<sup>th</sup> March 2024
- Saturday Doubt Session 2 hours
- Duration of the course : 6 -9 Months
- Work on Real-time projects: 10+ Projects
- Access to Code base for all the different modules
- Live Class Recording will also be provided to everyone, so that even if you miss the live class, you can watch it later at your convenient time.
- Access to Recorded Courses: [Only applicable for first few candidates, When we will reach out to you, do check from us, whether you would be part of this benefit or not?]



# High Level Syllabus

- Languages covered: Java, JavaScript
- Web Automation tools covered: Selenium[Java], Cypress [JavaScript], Webdriver.io [JavaScript], Playwright[JavaScript]
- API Automation covered: RestAssured[Java], Postman
- Performance Testing: Jmeter
- Mobile Automation: Appium [Java] | Android | iOS
- Database Testing: SQL scripts, JDBC Connection
- CI/CD: Git, GitHub, Jenkins, maven
- Cloud Infrastructure: AWS
- Containerization: Docker
- Reporting: TestNG, Cucumber, Allure
- Linux
- Interview preparation for all the included modules

\*Detailed Syllabus for individual module mentioned in respective slides, do check out the coverage.



# About Our Mentor

- [Akhil Jain](#) will be the course instructor for this bootcamp.
- IIM Lucknow Alumni, CFA Level 1, AWS Cloud Practitioner certified, ISTQB certified.
- He has 13+ years of working experience as Automation Engineer.
- Worked on Java & JavaScript based tech-stack to build frameworks from scratch.
- Worked on Web, Mobile, API, Performance, Database, System Testing.
- Currently working on System automation testing which involves automating Installation, Upgrade , Backup/Restore for telecom systems using Linux shell scripting, Docker, AWS, EKS, GRE, Kubernetes, Jenkins.
- Have skillset on Java, JavaScript, Selenium, Webdriver.io, Cypress, Playwright, Postman, RestAssured, Appium, Jmeter, Jenkins, Linux, AWS, etc..
- Have taught more than 1000+ aspiring SDET's. [Check the next slide to know about the platforms on which he is currently teaching]
- **LinkedIn Profile:** <https://www.linkedin.com/in/akhil-jain-podtest/>



# Teaching on Platforms

- **GeeksforGeeks:** 'Java with Selenium' Bootcamp with
  - Currently running the fifth batch SDET5 on GFG Platform.
- GFG Bootcamp link:  
<https://www.geeksforgeeks.org/courses/complete-guide-to-software-testing-automation>
- **TheTestTribe:** Recorded course of 30+ hours on Java, Selenium, Maven, TestNG, Git, Framework Design, Jenkins CI/CD.
- Already 500+ students enrolled in the program.
- Course link: <https://www.thetesttribe.com/courses/selenium-course/>
- **Corporate trainer:** Conducted Trainings for multiple MNC's.
- Free Automation Architecture Bootcamp running every Sunday for 2 hours, if interested register using the our website <https://podtest.in>
- Free Automation videos & other resources on our **YouTube channel:**  
<https://www.youtube.com/@podtest> [Do Subscribe us for latest updates]





# JAVA

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- Installation
- JDK, JRE, JVM
- Data types: Primitive , Non-Primitives
- Scoping: Local, Instance, Static
- Operations: Arithmetic, Logical, Relational
- Conditional logics: If-Else, For, while, Switch
- Classes, Objects, This keyword, Constructors, Methods
- Interfaces & Abstract Classes
- OOPS: Abstraction, Encapsulation, Inheritance, polymorphism[Overloading, overriding]
- Access Modifiers: Default, Private, Public, protected
- Arrays & its operations
- String & its methods
- Exception Handling: Try-catch-finally, throws. Checked vs unchecked exceptions.
- Collections Framework: Set, Map, List, Arrays, Collections
- Comparable, Comparators, Hash Code, Equality etc.
- Working with File systems
- Working with Streams, Date Time
- Working on Threading
- Lambdas & Streams



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# SELENIUM

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- Installation
- Architecture understanding
- Selenium Grid
- WebDriver Browser commands & its capabilities.
- Elements related commands, working with different elements & Action Class
- Wait Mechanisms
- Handle Iframes, Popups, Windows, Tabs
- Shadow DOMs, File uploads, JavaScript executor, Screenshot capturing, WebTables related operations



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# MAVEN

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- Installation
- Maven Hierarchy: Lifecycle -> Phases -> Plugins -> Goals
- Understanding Lifecycle: Clean, Build
- Different configuration files: pom.xml, settings.xml
- Different types of Repositories
- How Maven works
- Adding dependencies
- Adding Plugins configuration
- Profiling
- Need of Target folder
- Maven CLI
- Adding custom properties
- Running testcases via Maven
- Surefire report plugin



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# TestNG

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- Installation
- Need of TestNG, Understanding Testing process
- TestNG.xml file
- Hierarchy understanding: Suite -> Test -> Groups -> Class -> Methods
- Create testcase using @test annotation
- Using Before & After Hooks for each level.
- Test Data Management using Data Provider
- Parameterization
- Parallel Execution
- Cross-Browser Testing
- Generating Execution reports
- Adding custom listeners.
- Attaching logs, screenshots, exceptions to the report



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# SQL

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- What is SQL & learn the structure of it.
- Select, from, where, distinct
- Different types of joins: Inner Join, Left, Right, Outer
- Grouping, having clause
- Insert, update delete queries
- Learn to write Sub-queries
- Setting up JDBC connection to run SQL scripts via automation scripts
- Database testing using SQL



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- Installation
- File lifecycle in Git, different stages involved.
- Important files in Git: .gitignore, readme.md
- Create a Git Repository
- Cloning a project
- Forking a project
- Working with branches : creation, switching, etc.
- Updating a branch with latest changes
- Pushing local changes to remote
- Merge branches & resolve merge conflicts.
- Git commands: init, clone, remote, branch, checkout, add, commit, push, pull, log, merge



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- Account Creation
- Creating a Repository.
- Types of repositories: Private/ Public
- Controlling the access to the users
- Creating a beautiful Readme.md file
- Creating branching strategies.
- Defining the rules for merging the branches
- Review commit changes & approval process
- Sharing review comments & incorporating the comments.



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# Design Patterns

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- Page Object Model [POM]
- Singleton pattern
- Factory pattern
- Others



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# Appium

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- Installation
- Architecture understanding
- Types of mobile apps: Web, Native & Hybrid
- Android studio, Xcode setup.
- Working on Real Devices & Emulators
- Working on Android , iOS apps
- Working with Appium Inspector
- Automating gestures, handling waits
- Framework Design: POM, TestNG, Appium Service, capabilities, etc.



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# JavaScript

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- Node.js installation
- Npm package usage
- Different data types in JavaScript
- Declaring variable via let, const, var
- Functions: normal, anonymous, arrow, callback, first-class function
- Array & its methods
- String & its operations
- For loop, If-else, while, Switch
- Import/Export modules
- Async operation handling: async/await , then clause
- Promises: Creation, Consuming, States, Chaining, all
- Concepts clarity on: Call stack, Microtask queue, CallStack queue, Execution context, Hoisting, Closures, lexical environment, Temporal Dead Zone, Global Execution Context, Inversion of control, Callback Hell



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# WebDriver.io

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- Installation
- Architecture understanding
- Boiler plate code
- Setup types, Automation protocols, Auto-waiting
- Configuration: Driver setup & capabilities
- Working with different types of Selectors
- Handling Timeouts
- Understanding Configuration file & Runner types
- Mocha Assertion library, Jasmine for test case creation
- Grouping test specs
- Understanding sharding
- Integration with Jenkins
- Generate Allure Report



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# Playwright

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- Installation
- Architecture understanding
- Working with different web elements & locators
- Trace viewer
- Test Configuration
- Working with Fixtures
- Sharding, Handling timeouts
- Understanding Auto-waiting
- Assertions
- Designing framework



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# Cypress

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- Installation
- Architecture understanding
- Test Runners
- Generating folder structure
- Working with different web locators
- Using hooks, fixtures
- Configuration files
- Generating test report
- Framework design



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# Linux

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- Installation of Linux OS via Virtual Box.
- Linux: History, versions & different flavours & comparison with Windows machine
- Understanding Linux file system
- Working with file management system
- Files & Directory CRUD: chmod, touch, rm, cat , less, more, head, tail, mv, copy
- Working on data: grep, pipe
- Work with vi Editor
- Switch users & sudo access
- Shell scripting basics: variable creation, if-else, for loop, methods
- Connecting to linux via CLI using ssh command
- Copy content from one machine to another using scp.
- Linux repositories & how to install softwares on Linux.



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# Docker

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- Installation
- Using Docker Images.
- Creating containers from images & setting up connection between multiple containers
- Volume mapping of docker with underlying OS.
- Using Docker as agent machine in Jenkins pipeline
- Running your Automation framework inside Docker container via Selenium & installing browser inside it to perform the execution.



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- Account Creation
- Using AWS Free tier
- Connecting to AWS via UI, CLI.
- EC2: Creating a EC2, what is base image, how to connect to EC2 via UI & CLI
- Use EC2 as a Agent machine to run Jenkins pipeline.
- S3 bucket: how to create S3 bucket & add objects to it via CLI & UI.
- How to host your Allure Report using S3 bucket & share with stakeholders



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# JMeter

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- Installation
- Types of Performance Testing
- Test Plan, Thread Group , Group & Steps in Jmeter
- Script recording
- Execution order of JMeter Elements
- Logic Controller: Simple, Random, Loop, If, Only once, Runtime, module controller
- Config Elements: HTTP default, cookie & cache manager, user defined variables, CSV data etc.
- Assertion , listener elements & pre & post processors
- Debugging & Correlation
- Test Data preparation
- Test Script preparation
- Test Execution
- Test Reporting
- Run JMeter scripts via CI/CD pipeline.



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# API Testing

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- How API's work?
- Meaning of Different response codes.
- Working with different API methods:  
GET/POST/PATCH/PUT/DELETE etc.
- Parameters & API body.
- Performing authentication using API
- Microservice vs Monolithic architecture
- Rest API's



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# Rest Assured

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- Framework Setup
- Learn Rest Assured library
- POJO, Serialization, Deserialization
- Working with JSON Response: Simple & Complex
- Learn writing JSONPath expression
- Learn Hamcrest usage
- Work with HTTP Methods
- Work with Query Params, Path Param
- Working with Headers & Cookies
- Validate Response Status & Body
- Authentication & Authorization
- Convert JSON to POJO



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# PostMan

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- Installation
- Workspace, collections, logs, console
- Environment variables: Local, Global
- Settings configurations
- Response status, body validation & extraction via JavaScript
- API Chaining
- Proxy, Certification & SSL
- Parameterization & API Body formation
- Working with different HTTP methods
- Report Generation
- Newman CLI: running testcases



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# Jenkins

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- Installation
- Agent Machines & Configurations understanding.
- Creating Free Style Jobs
- Creating pipelines
- On-demand & Scheduling based execution
- Dynamic scripting samples
- Create CI/CD pipeline for Automation framework execution using Jenkins, Github, Docker, AWS.
- Attaching
- Creating branching strategies.
- Defining the rules for merging the branches
- Review commit changes & approval process
- Sharing review comments & incorporating the comments.



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# DSA

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- Recursion, Slicing Window, Frequency Counter, LIFO, FIFO
- Search Algorithms: Linear, Binary search
- Sorting Algorithm: Bubble, Selection, Insertion, Merge Sort
- Data Structures: Stack, Queue, Singly Linked List, Doubly Linked List, Binary Search Tree.
- Languages covered for DSA: Java & JavaScript



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- Installation
- Implement Allure Report in the framework.
- Attach screenshots to the report
- Attach the test case logs to the report
- Generate execution report.
- Attach report with CI/CD pipeline
- Share the report with stakeholders [Implementing AWS S3 bucket usage]



# Framework utilities

- Data Driven testing via reading data from Excel sheets
- Implementing logging framework like log4j2
- Configuring properties files
- Creating custom execution reports
- JDBC Connection setup
- Designing a unified framework covering Web, API & Mobile Automation
- Using POM pattern to design framework.
- CI/CD integration using Jenkins, GitHub, maven
- Cross Browser & Parallel Execution capabilities.





# Cucumber

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- What is BDD?
- Gherkin Syntax: Feature, Scenario, Scenario-outline, examples, Given, When, Then, And, But, Datatable, Tags
- Creating feature file, Step definition files & Runner files
- Integrating Cucumber with TestNG
- Cucumber Hooks: Global, Conditional, Scenario, Step
- Running testcases based on tags i.e. grouping, Tag Inheritance
- Generating Cucumber execution reports
- Attaching cucumber reports in Jenkins



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# HTML

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- What is HTML?
- How HTML works?
- Why as Automation Engineer, we should know about HTML
- Tags understanding: Input, div, span, button, body, head, html, p , h1, a, img, script, iframe, svg, shadow, list, webtable etc.
- Attributes understanding & how to read them.



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# CSS

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- Need of CSS
- How Styling gets applied on a web page using CSS?
- Stylesheets & inline css
- Learn writing CSS Path: Id, classname, attributes, descendants, immediate childs, Indexing, partial attributes, prefix, suffix, immediate siblings, following-siblings, ignore cases, multiple attributes, grouping.



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# DOM

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- What is Document Object Model?
- How it works & why it is important for Automation engineers to know about it?
- How HTML gets converted to DOM structure?
- Document object
- Using DOM methods to write Javascript code to perform operations on UI Automation
- Understanding nodes & its relationship with other nodes.
- DOM Methods: queryselector, getElementById, etc...
- Use Browser console to learn working with DOM



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# XPath

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- What is Xpath?
- Types of Xpath: Absolute & Relative
- Learn using attributes: id, name, class etc..
- Working with text()
- Methods covered: contains, starts-with, normalize-space
- Grouping & indexing
- Axes methods: following, ancestor, child, preceding, following-sibling, parent, self, descendant



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# JSON Path

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- How to traverse JSON Data?
- Useful in extracting data from API Response
- Operators : Root node, child node, deep scan
- Indexing handling
- Slice operations
- Filter expressions
- Working with multiple expression && || in nin size



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# Learning Schedule

- [March, April]: Git, Github, Java & DSA
- [May, June, July] Selenium, HTML, CSS, Xpath, DOM, Maven, TestNG, Jenkins, CI/CD, Cucumber, Allure
- [July, August]: API Testing: Rest Assured, PostMan, JSON Path
- [August]: Mobile Testing: Android | iOS using Appium
- [September]: Performance Testing: Jmeter
- [September, October]: Linux, Docker, AWS
- [October]: JavaScript & DSA
- [November, December]: WebDriver.io, Cypress, Playwright



# Registration Process

- Visit website <https://podtest.in>
- Click on 'Register' Button for 'Full Stack Bootcamp'.
- Google form will open up, fill up the asked details.
- Once registered, we will contact you personally in 24 hours on your provided contact details.
- Will understand your needs & explain what we are offering, only once you are satisfied will initiate the payment process.
- We encourage everyone to compare our course syllabus, duration, topics, projects, pricing, access to recorded live classes & recorded courses with any other vendor. Once you are satisfied only then enrol.





# Pricing

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- We have tried our best to make this program the most affordable in the entire industry considering the [duration, depth of topics, access to recorded live lectures, Access to our recorded courses, Real time projects, Interview preparation](#) & our expenditures.
- **Our Price is ([Rs 20,000/ +GST](#)).**
- Consider this as a Investment for your career growth.
- This may open up new opportunities in form of Salary Hike, Job Switch, Promotions.
- Other Vendors are charging around Rs 300,000 for half the curriculum we are covering.
- Make a informed & a wise decision. [Looking forward to have you in the course]
- In case of queries, please reach out on LinkedIn or through our email address



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