Testleaf

Always Ahead

FULL STACK AUTOMATION
BOOTCAMP

OVERVIEW

Full Stack automation enables QA teams with faster and more sophisticated ways to build and execute web tests. The popular test automation tools being **open source** serve as the foundation for test automation in market place to deliver value to their customers while it can automated using several languages of choice like **Java**,Python,Pearl,Ruby,PHP,.NET(C#) and many other programming languages and it can run against all popular browsers like chrome, edge, firefox, IE, opera and safari.Tools like Selenium provides support for integration of open source frameworks like **TestNG, Apache POI and Cucumber** and that makes UI automation easier and scalable. Hence, it provides a **huge market opportunity.**

The Full stack program at TestLeaf, can provide you with the skills you need to successfully transform yourself from manual tester to automation engineer, whether you are looking to **grow within your organization or are making a career transition.**

IMPACT

The Full stack automation program is aimed to help you to learn test automation scripting, execution and strategiesto grow up in the thriving age of automation.

As part of the program, you explore and learn from real-world case studies such as **ServiceNow, Salesforce** and many more. Boost your programming and test automation skills and lead your organization from being part of the herd that merely engages in automation to a remarkable, innovative enterprise.

CORE JAVA

SELENIUM WEBDRIVER

REST API

APPIUM

DEVOPS

PROGRAM FACULTY

BABU NARAYANAN MANICKAM

SENIOR COACH
21 YEARS OF IT EXPERIENCE

BABU WORKED FOR LARGE PRODUCT & SERVICES ORGANIZATIONS INCLUDING MERCURY INTERACTIVE, HP, HCL, SYNTEL AND ADVISES GLOBAL COMPANIES SUCH AS FRANKLIN TEMPLETON, CARATLANE, L&T, MONDELEZ ON TEST AUTOMATION. HE HAS LED STRATEGIC WORKSHOPS FOR EXECUTIVES AT HUNDREDS OF COMPANIES IN 31 COUNTRIES AND IS THE SPEAKER ON SELENIUM CONFERENCE.

HARI RADHAKRISHNAN

SENIOR COACH
17 YEARS OF IT EXPERIENCE

HARI WORKED FOR LARGE CAPTIVE & SERVICES ORGANIZATIONS INCLUDING FIDELITY INVESTMENTS AND ADVISES GLOBAL COMPANIES SUCH AS FRANKLIN TEMPLETON, CARATLANE, L&T, MONDELEZ ON TEST AUTOMATION. HE HAS LED STRATEGIC WORKSHOPS FOR EXECUTIVES AT HUNDREDS OF COMPANIES IN 31 COUNTRIES AND IS THE SPEAKER ON SELENIUM CONFERENCE.

COURSE LEADERS

GOPI

SHERIBA

SARATH

SAM DAVID

BOWYA

DHIVYA

GANESH

NAVEEN

INDUSTRY EXPERTS

In addition to the course leaders, industry experts from the test automation world share their knowledge and experience through periodic guest lectures and webinars.

KEY FRAMEWORKS AND TOOLS

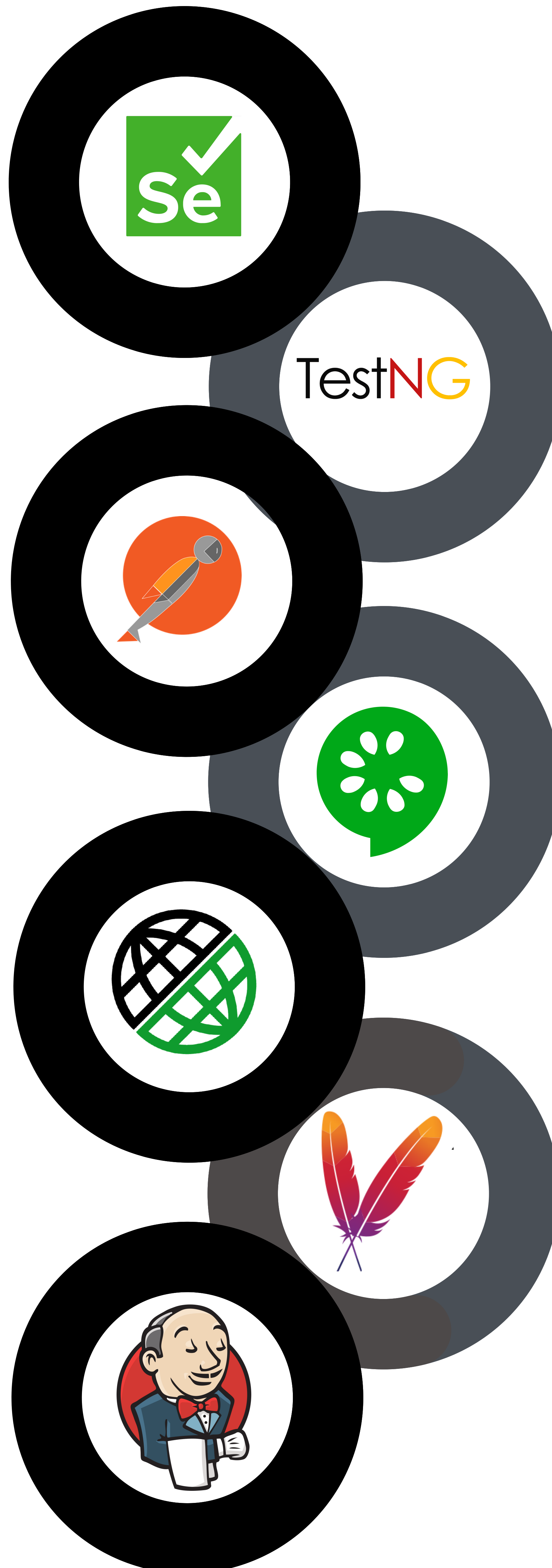## WEBDRIVER
Browser automation W3C
API / Framework

TESTNG
Testing Runner
Framework

POSTMAN
API Automation
Platform

CUCUMBER
BDD Framework

REST ASSURED
Java API Automation
Framework

MAVEN
Build & Project
Dependencies tool

JENKINS
CI/ CD tool to
faciliate automation

PROGRAM HIGHLIGHTS
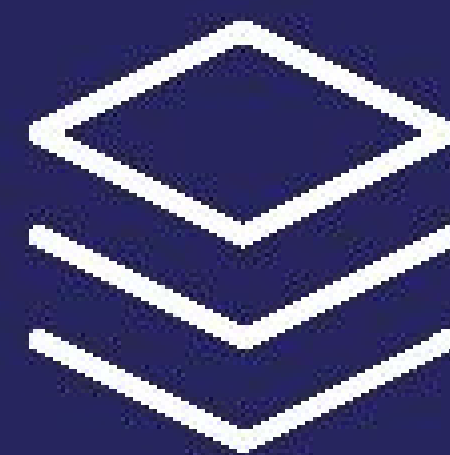
50+
VIDEO LECTUERS

30+
ASSIGNMENTS

40+
TESTCASES

50+
DISCUSSIONS

04
APPLICATIONS

01
CAPSTONE PROJECT

44 LIVE ONLINE TEACHING SESSIONS

The Program includes live Q&A with coaches, mentors and trainers of TestLeaf during and after the scheduled classes

GET STARTED

The core focus of the program is to aid learners in learn, build automation scripts using Selenium in this thriving age of test engineering

Module 1

CORE JAVA FOR SELENIUM

- Java Basics Recap
- Java Exceptions Classes and Hierarchy
- Java Set Interface and its associated methods
- OOPS Introduction
- Methods Signature and best practices
- Inheritance & Polymorphism
- Interface and Abstract Class
- Java String, Java Collections, Java Reflection

Module 2

SELENIUM WEBDRIVER BASICS

- Selenium Intro
- Locators & Basic Script
- Handle Dropdown
- Radio Button
- XPath-(Basics and Advance)
- Multiple Element

SELENIUM WEBDRIVER ADVANCED

- Selenium 4.X New Features
- WebTable and Calendars
- Handle Alerts & Frames
- Handle Multiple Windows
- Take SnapShots on Browser and Elements
- Deal with Mouse and Keyboard Actions
- WebDriver Exceptions
- Handle Waits - Implicit and Explicit
- Driver Capabilites and Options
- Handle Notifications and Devtools

JAVA OOPS AND KEYWORDS

- Java OOPS
- Encapsulation and Abstraction
- Inheritance and Polymorphism
- Webdriver Implementation of OOPS
- Static, Final
- Exception Handling
- Dynamic Arrays / Collections- List, Set, Map
- Solving Java Problems on Collection

FRAMEWORKS

The core focus of the program is to aid learners in learn, build automation scripts using Selenium in this thriving age of test engineering

Module 5

TESTNG + CUCUMBER

- TestNG XML, Annotations and Attributes
- Parameterization and Apache POI
- Common Data Provider Implementation & Retry Failed tests
- TestNg Assertion
- Cucumber Basics
- Cucumber Advanced topics

Module 6

PAGE OBJECT MODEL FRAMEWORK

- POM Sequential and Parallel
- POM for Multi-lingual application
- POM with extent report integration
- Hybrid framework
- Jenkins integration

REST API - AUTOMATION

REST FUNDAMENTALS

- Basics, Architecture,
- Authentication, Headers,
- Parameters, Request and
- Response, Status Code,
- Interceptors, Content Type etc
- Components, Collections,
- Variables, Scripting, Logs,
- Monitors, Reports, Collection Runner and
- Parameterization
- Build Pre and Post Scripts

REST ASSURED BASICS

- Get Started with Rest Assured
- Basics, headers, parameters,
- Content Types - JSON, XML, Logs,
- Build the components, reports, data and framework
- Build Mock Servers, Mock request and response

DEVOPS AUTOMATION

Module 1

- Git Basics - Pull, Push, Merge and Conflicts
- Git Advanced - Command Line and Branches
- Maven Basics - Build Introduction
- Maven – Selenium + TestNg Build Automation

Module 2

- Jenkins Basics
- Jenkins Job & Build triggers
- Jenkins Pipeline Basics
- Jenkins + Selenium Integration in Pipeline

APPLICATIONS UNDER TEST

LEAFTAPS

Enterprise Java application built on opensource technologies hosted in AWS for learning Selenium Internals with ERP business testcases at ease.

SERVICENOW

AngularJs IT Service management application hosted on developer environment for learning real-time automation scenarios on different browsers

SALESFORCE

Javascript enterprise platform-as-a-service (PaaS) solution that allows automation engineers to test and deploy cloud applications

LEAFGROUND

One of the real playground platform that provides opportunity to experiment and validate your every learning with Selenium and Java
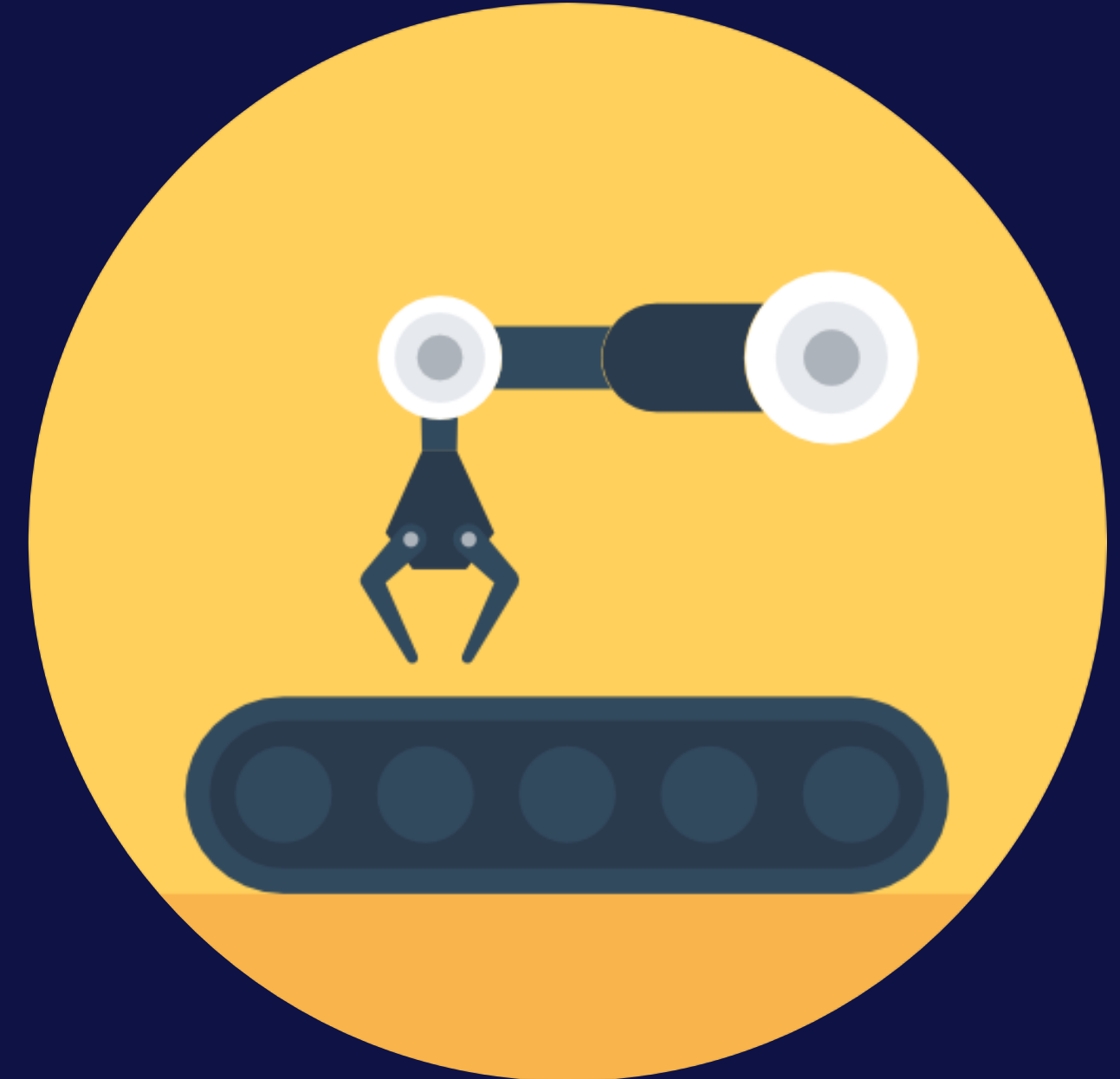
WHY YOU SHOULD LEARN AT TESTLEAF

Great Coaches !

Quality Learning

Premium Career Support

Tons of Practice

Real-world projects

Build network

CERTIFICATE

Testleaf
Always Ahead

Certificate

of completion

awarded to

Name

in recognition of your exceptional performance that has led to successful completion of
Selenium 4 training at TESTLEAF between 13/03/2021 to 02/05/2021

_____
Training Coordinator

Data-Month-Year
_____
Date

PAST PARTICIPANTS

TOP COUNTRIES REPRESENTED

15000+ participants from over 31+ countries have benefitted from this program.

United Kingdom

United States

Switzerland

Asia

Saudi Arabia

Germany

India

UAE

Singapore

South Africa

Brazil

WORK EXPERIENCE

The program has had Manual tester, Automation developer and Manager etc. participating

4%	12%	26%	31%	27%
1-3 YEARS	3-6 YEARS	6-12 YEARS	12-20 YEARS	20+ YEARS

A GLOBALLY CONNECTED CLASSROOM

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We attempt to respond to queries in 12 hours or less. However, over weekends and holidays, our responses may take up to 24 hours.