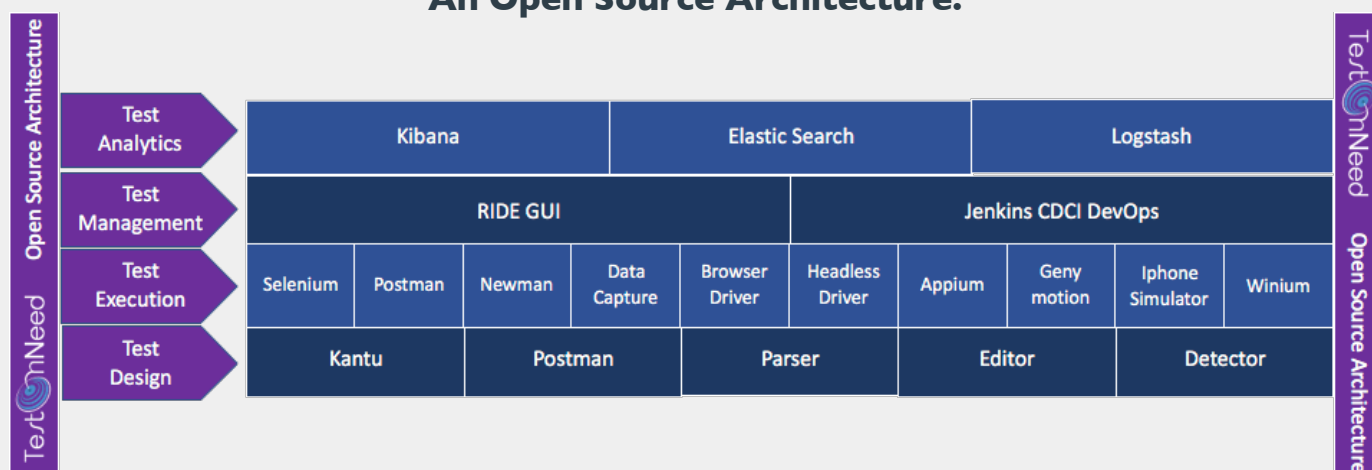# An Open Source Testing Ecosystem

"The world is changing very fast. Big will not beat small anymore. It will be the fast beating the slow" – by Rupert Murdoch 21st Century Fox. TestOnNeed is created to lead and help Entrepreneurs and organizations such as Startups and Enterprises to bring their products and solutions to the market fast to beat the slow.

We do this by optimizing testing processes, resources and improving efficiency through lab and test automation, DevOps and TestOps. We better the speed, scale, coverage, and quality of Blockchain, Artificial Intelligence (AI), Internet of Thing (IoT), Mobile Edge Computing (MEC), Cloud, Augmented Reality (AR), and Virtual Reality (VR) applications. The best of it is that all our test solution is built bridging multiple open source tools and technologies.
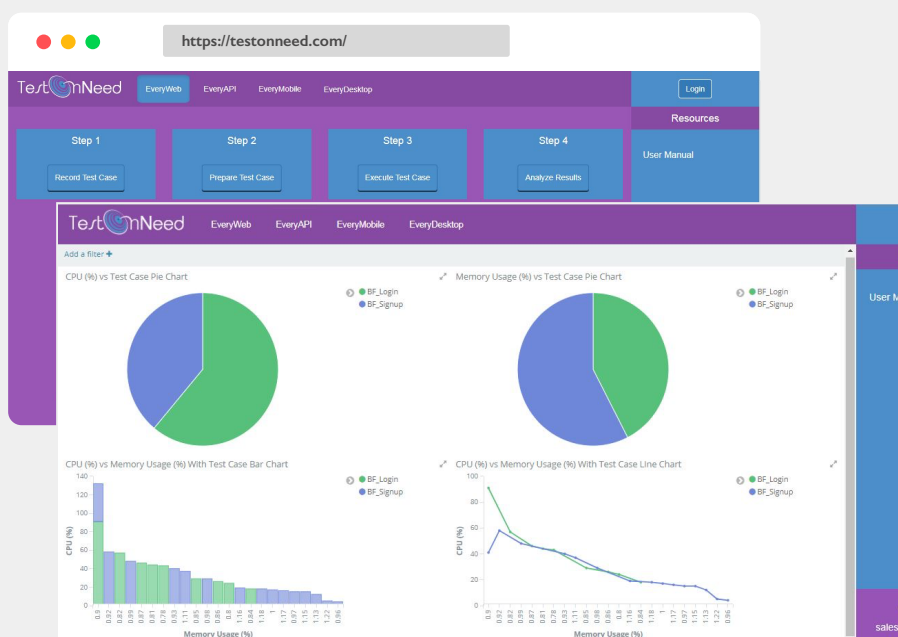
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Test Stages	Open Source	Description
Test Design	Kantu	It is used to record test cases from the browser for web UI testing as well as to convert into JSON Format
	Postman	It is used to record and create test case from the browser for web API testing and manually for product API testing
	Parser	It is used to convert JSON format to Python format required for test execution
	Editor	It is used to create test cases for Android (Notepad++) and iOS (XCode) application testing
	Detector	It is used to detect the elements in the mobile UI for Android (UI Automator) and iOS (Inspector) application testing
Test Execution	Selenium	It is used to automate browser to execute web UI test cases
	Postman	It is used to execute functional and automation test cases from the browser for web API testing and manually for product API testing
	Newman	It is used to perform load test cases for web API and product API testing
	Data Capture	It is used to capture system performance such as CPU utilization and Memory usage
	Browser Driver	It is used to execute web UI testing in the browser such as chrome, firefox, IE, etc
	Headless Driver	It is used to execute web UI testing in the background without the browser
	Appium	It is used to execute mobile application test cases using real phones as well as simulator
	Genymotion	It is used to simulate Android devices for test execution
	iPhone Simulator	It is used to simulate iOS devices for test execution
	Winium	It is used to automate the execution of Desktop application test cases on Windows platform
Test Management	Ride GUI	It is used to select and execute test cases as well as show test results, logs, and reports
	Jenkins	It is used for test automation to enable CDCI DevOps test life cycle
Test Analytics	Kibana	It is used to visualize and display complex data in the form of variety of 2D and 3D graphs
	Elastic Search	It is the primary engine that crunches the data feed from Logstash to create insights and gives the results to Kibana
	Logstash	It is used to feed the data provided by various sources to Elastic search

We call it as **'An Open Source Testing Ecosystem'** developed using
'An Open Source Architecture.'

The **TestOnNeed** open source architecture today supports testing all application products that run on the browser, controlled and managed through command line interface and Application Programmable Interface (API) such as RESTful API, that runs on mobile platforms such as iOS and Android, and desktop platforms such as Windows. We call it as testing EveryWeb, EveryAPI, EveryMobile, and EveryDesktop. The intent is to expand the open source architecture scope to other testing areas soon. Stay tuned!

Test Stages	Open Source	EveryWeb	EveryMobile	EveryAPI	EveryDesktop
Test Design	Kantu	Yes	No	No	No
	Postman	Yes	No	Yes	No
	Parser	Yes	Yes	Yes	Yes
	Editor	Yes	Yes	No	Yes
	Detector	No	Yes	No	Yes
Test Execution	Selenium	Yes	No	No	No
	Postman	Yes	No	Yes	No
	Newman	Yes	No	Yes	No
	Data Capture	Yes	Yes	Yes	Yes
	Browser Driver	Yes	No	No	No
	Headless Driver	Yes	No	No	No
	Appium	No	Yes	No	No
	Genymotion	No	Yes	No	No
	Iphone Simulator	No	Yes	No	No
	Winium	No	No	No	Yes
Test Management	Ride GUI	Yes	Yes	Yes	Yes
	Jenkins	Yes	Yes	Yes	Yes
Test Analytics	Kibana	Yes	Yes	Yes	Yes
	Elastic Search	Yes	Yes	Yes	Yes
	Logstash	Yes	Yes	Yes	Yes

Being fast is all about transformation and success is all about welcoming it.

Visit us, register and start your project at
https://testonneed.com/

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