

# Test Documentation

## Technologies Used

- Selenium Web Driver
- Rest-Assured
- Java 11
- Junit 5
- AsseertJ
- Allure Reporting
- Maven

## Set Up

- Download the Zip file Or clone the project from below Github public repository  
<https://github.com/dasunbl/share-now-tests>
- No additional configuration needed to run the test

## Running Tests

### For UI Tests

Execute *mvn -pl registration clean install* to run the tests , when tests are over run

*mvn -pl registration allure:serve* to run the report (Report will be opened in default browser)

### For API Tests

Execute *mvn -pl carspecs clean install* to run the tests , when tests are over run

*mvn -pl carspecs allure:serve* to run the report (Report will be opened in default browser)

## Test Execution Parameters

**-Dbrowser** – This is to select the browser of UI tests, default is set of Chrome and Accepted values are **CHROME** and **FIREFOX**

**-Denv** – As a demonstration of concept, specifying environment is possible with this parameter. In UI tests all environments are set to same Share Now Live Site (EN version) . Accepted values are **QA** , **PROD** and **STAGING** , where QA is the default

# Reporting

The screenshot displays the Allure Behaviors reporting interface. On the left, a sidebar contains navigation links: Overview, Categories, Suites, Graphs, Timeline, Behaviors (selected), and Packages. The main area is titled 'Behaviors' and shows a table of test results. The table has columns for 'order', 'name', 'duration', and 'status'. It lists three tests under 'Registration Tests':

order	name	duration	status
#1	Verify invalid value validation of a single field : Email	7s 843ms	Pass
#2	Verify mandatory field validation for a single field	7s 341ms	Pass
#3	Verify Performing a Valid Registration(Up to Payment Page)	9s 428ms	Pass

Below the table, the 'Execution' section provides a detailed breakdown of the test steps for the selected test. It lists various actions such as 'Open Application, accept cookies and Verify Join Button Text', 'Navigate To Registration Page', and 'Fill all fields excluding given list of fields'. Each step is accompanied by its duration and a list of parameters used, such as 'fieldNames', 'testDataType', and 'dataFileType'.

For more Organized reporting view, please use the [behaviors tab](#) of the left side column in Allure reporting.

## Test Framework

- UI Test framework follows the basic concepts of Page Object pattern with a dynamic approach to recognize and fill elements in a page. This allows to have lesser number of code lines to achieve filling a form with large number of fields based on configurations provided via Json. This approach is ideal
  - When all / most web elements can be identified by similar pattern
  - Large Number of fields are there in a Page
  - Number of fields of the page is dynamic – This could be handled 100% via data instead of code
- Middle layer of “Step” is introduced between tests and Pages , which handle all dynamic work and provide easy to use generic methods with good reporting to testing layer.