

Observations/Findings:

Please find the observations while testing the APIs as mentioned below:

1. *wa_key not being accepted through Headers*: When user tries to pass wa_key as a key value pair via header, '401 Unauthorized' is being returned. Whereas, when user passes wa_key as a query parameter and hits the URL, response is being received as expected. As the wa_key is exposed in URL, it can be a security issue.
2. *Case Insensitive wa_key*: wa_key is being accepted even if it is passed in uppercase or in combination of lowercase and upper case alphabets.
3. *Case Sensitive value for main types*: In built types api, if user passes value of main type in different case format, the response returned is an empty map.

Bugs Found:

1. Data is not being reflected in the desired language for any of the APIs. It is always being returned in English. For e.g. if language is passed as de-de, response received must be in German, but the response is still being returned in English.
2. The response json being returned for built-dates is not in proper format. 'page', 'pageSize', 'totalPageCount' parameters are not being returned.

Automation Testing:

Automation scripts are developed using Java, RestAssured, Cucumber, JUnit & Maven. This project is implemented in Page Object Model (POM) along with BDD which helps in making the code more readable, maintainable and reusable. List of all the software and tools required for developing and executing automation framework.

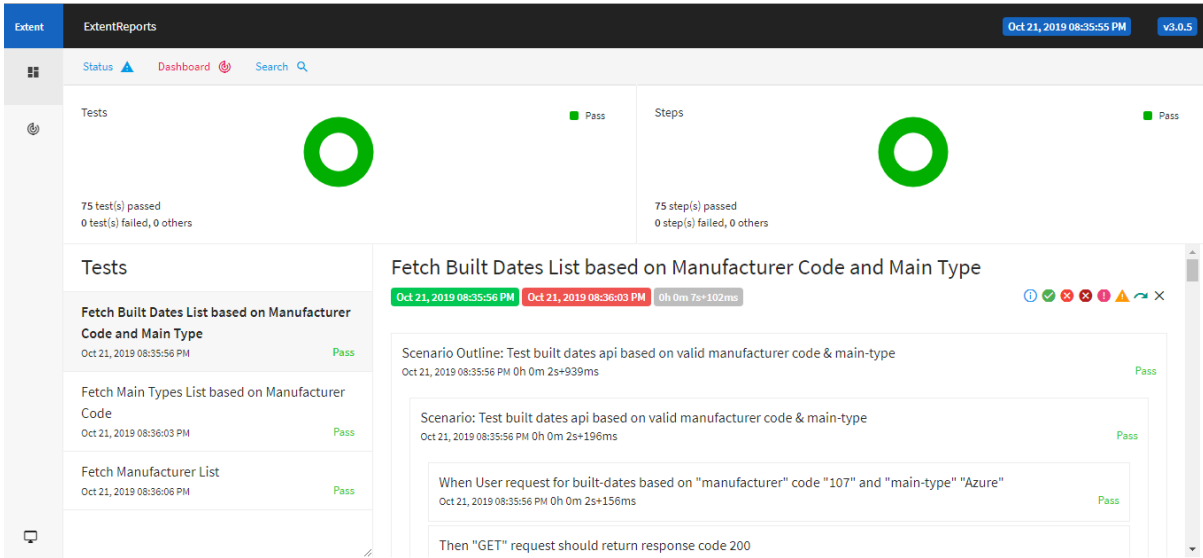
- Java
- Cucumber
- Rest Assured
- JUnit
- Maven
- IntelliJ or Eclipse

Manual Testing:

Manual test scenarios and steps are available in feature files corresponding to each API.

Reports:

Extent Report: Report generated using Extent reports will be available at: './cars-api-automation/output/report.html'



Cucumber Report: Report generate using cucumber will be available at: './cars-api-automation\target\cucumber'

▼ **Feature:** Fetch Built Dates List based on Manufacturer Code and Main Type
Test built dates api based on manufacturer code & main type
 ▼ **Scenario Outline:** Test built dates api based on valid manufacturer code & main-type
 When User request for built-dates based on "manufacturer" code <CODE> and "main-type" <MAIN_TYPE>
 Then "GET" request should return response code 200
 And Response wkda should not be empty
 And Response should contain expected built-dates for manufacturer code <CODE> and main-type <MAIN_TYPE>
 ▼
 # Comment: Testing main type apis with/without special characters
Examples:

CODE	MAIN_TYPE
"107"	"Azure"
"225"	"Qashqai+2"
"425"	"K-Reihe 2700"

- **Scenario Outline:** Test built dates api based on valid manufacturer code & main-type
- **Scenario Outline:** Test built dates api based on valid manufacturer code & main-type
- **Scenario Outline:** Test built dates api based on valid manufacturer code & main-type
- **Scenario:** Test built dates api based on manufacturer code & main-type without wa_key
- **Scenario:** Test built dates api based on manufacturer code & main-type with invalid wa_key
- **Scenario Outline:** Test built dates api based on combination of invalid manufacturer code or main-type
- **Scenario Outline:** Test built dates api based on combination of invalid manufacturer code or main-type
- **Scenario Outline:** Test built dates api based on combination of invalid manufacturer code or main-type
- **Scenario:** Test built dates api based on manufacturer code & without main-type
- **Scenario:** Test built dates api based on without manufacturer code & main-type
- **Scenario:** Test built dates api based on without manufacturer code & without main-type
- **Scenario Outline:** Test built dates api based on combination of invalid query parameters manufacturer code or main-type
- **Scenario Outline:** Test built dates api based on combination of invalid query parameters manufacturer code or main-type
- **Scenario Outline:** Test built dates api based on combination of invalid query parameters manufacturer code or main-type
- **Scenario Outline:** Test built dates api based on combination of invalid query parameters manufacturer code or main-type
- **Scenario:** Test built dates api with invalid service end point
- **Feature:** Fetch Main Types List based on Manufacturer Code
- **Feature:** Fetch Manufacturer List