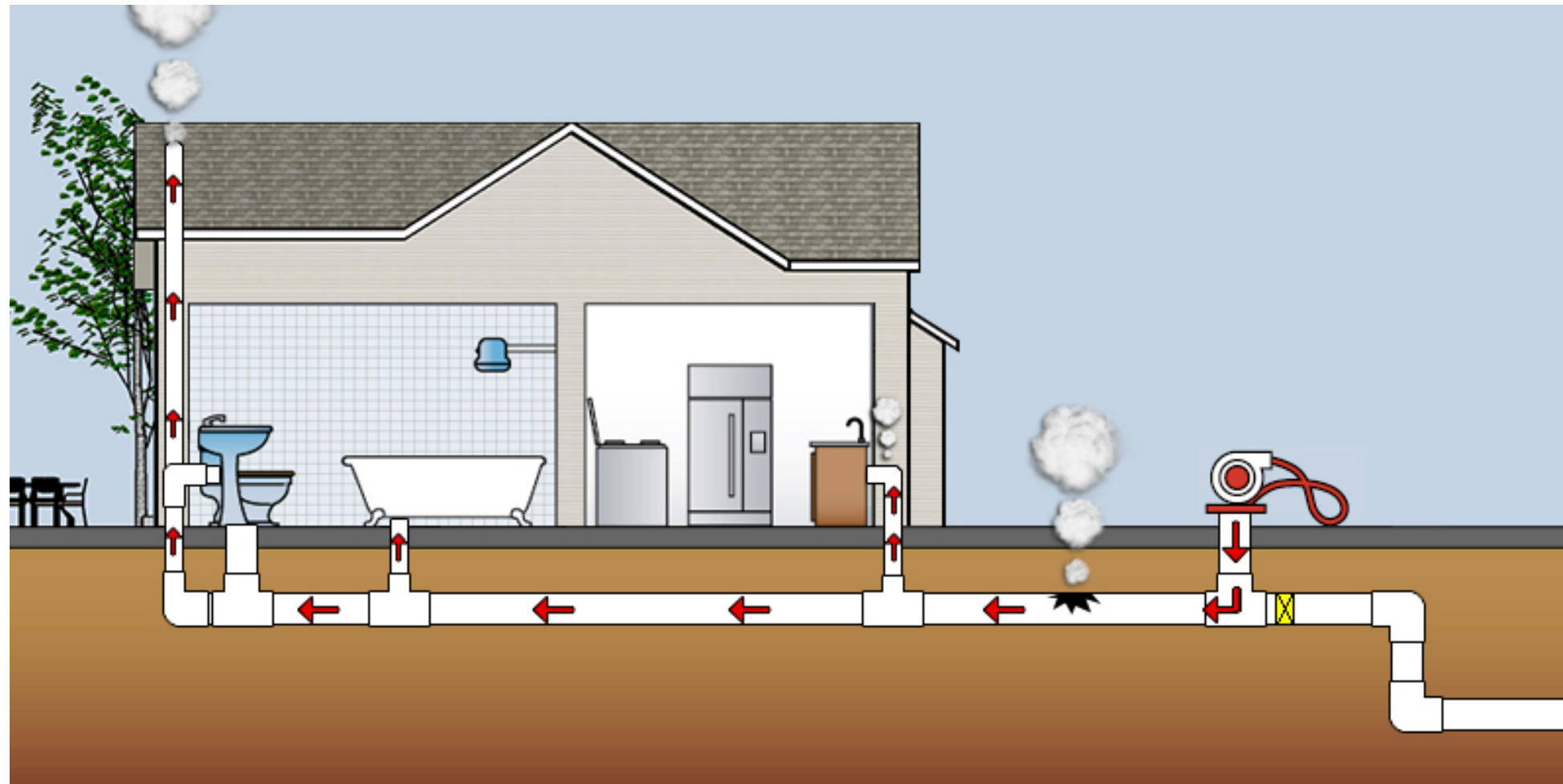


## Smoke Testing

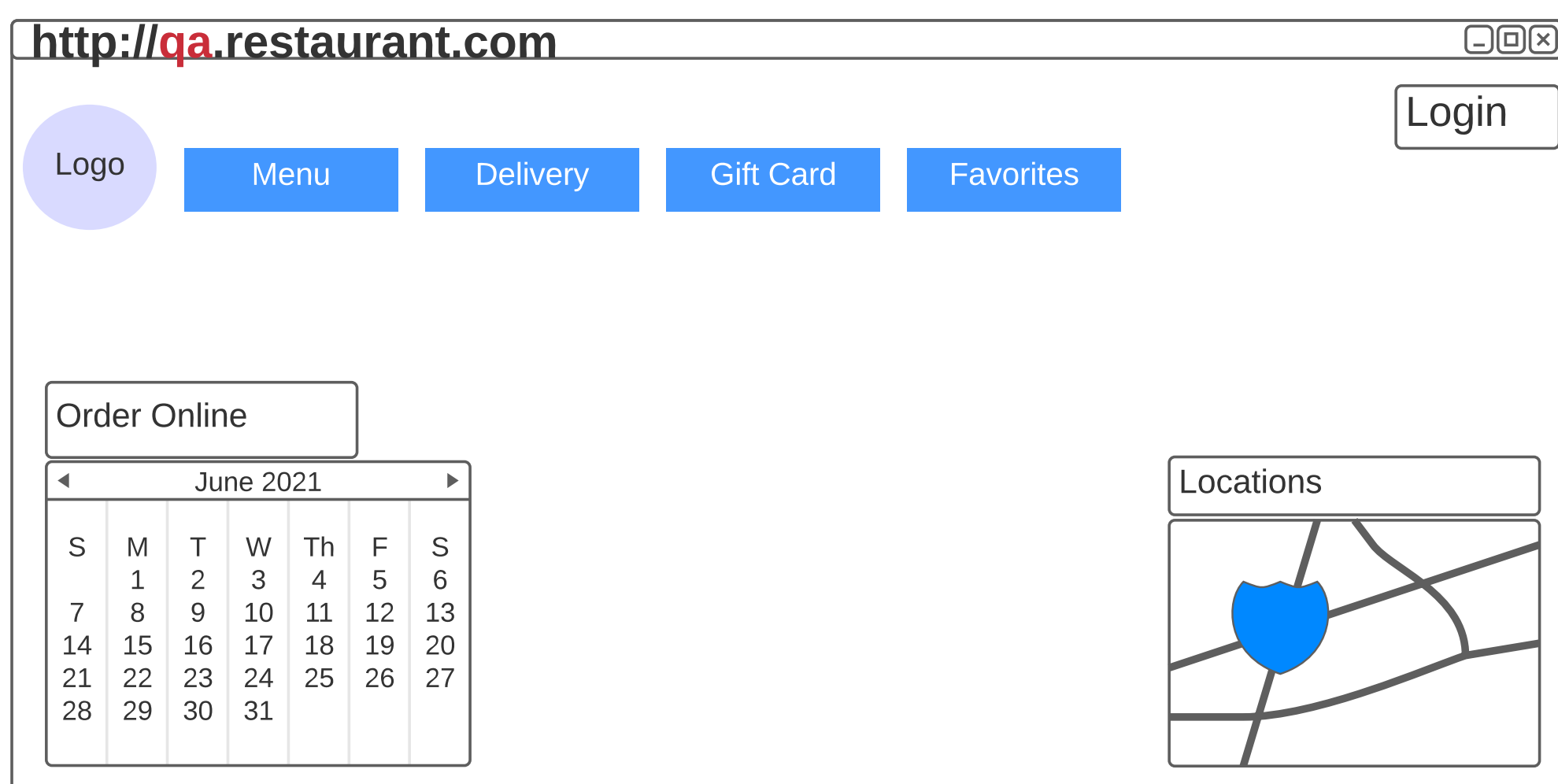


Plumbing pipe line system



Plumbing "Smoke test"

The term “**Smoke Testing**” is likely originated in the plumbing industry. Plumbing Smoke Testing makes discovering leaks and cracks in a project entire pipe. Then software development industry used "Smoke test" title.

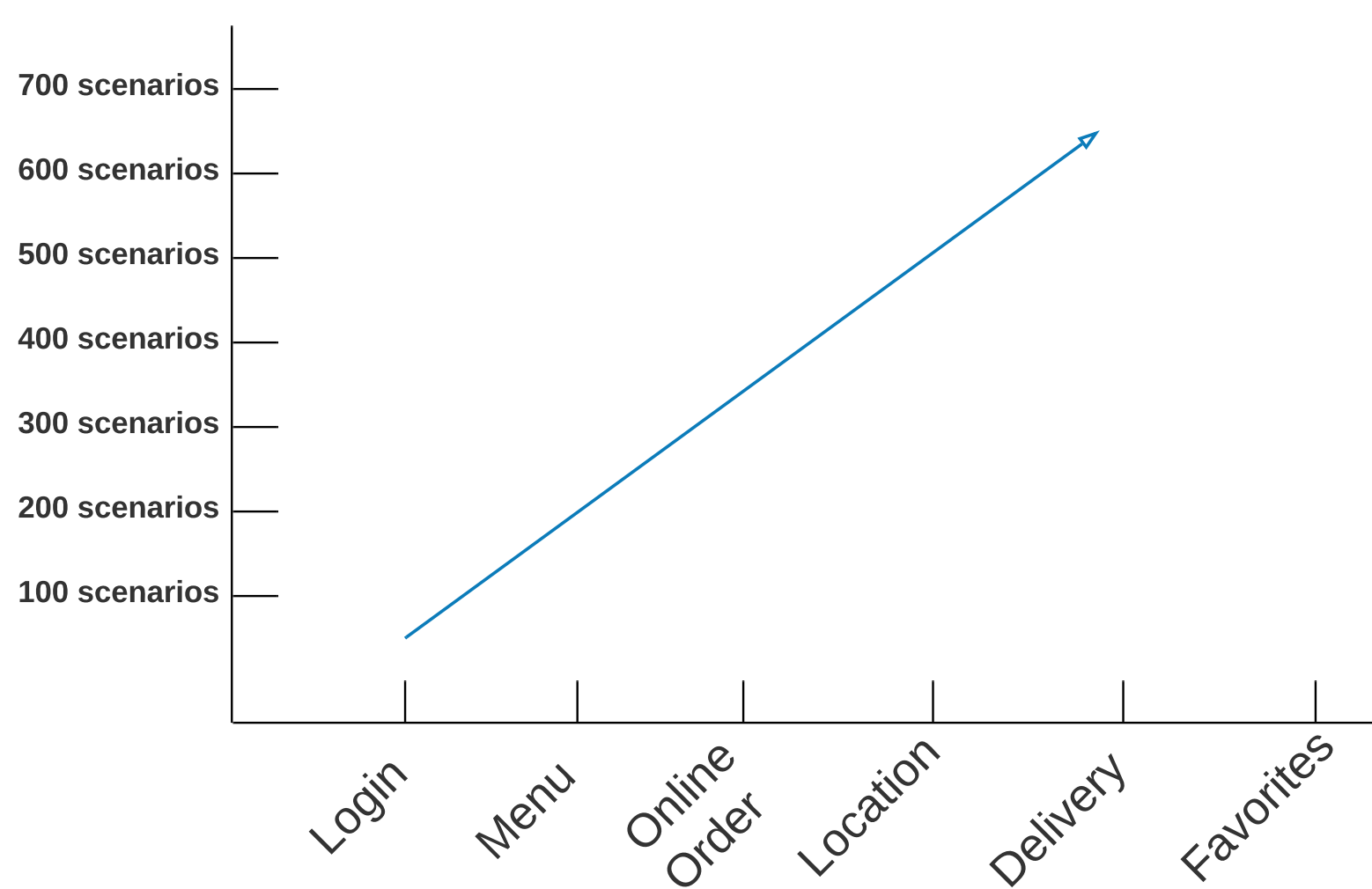


A scenario is possible / testable activity to a function.

(will learn more in deep in the future)

Scenarios example to login function:

- login as a restaurant admin
- login as a chef
- login as a customer
- login with incorrect credential (user-name, password)



QA team select major features' several scenarios among all 700 scenarios to run as Smoke test.

For example

today and upcoming 1 month, a QA team is going to test the calendar, they have already tested and saved code/scenarios for login, menu, delivery, and git cards.

The team has been performing smoke test for the major functionalities everyday, test around 70 scenarios, at 6 AM which takes around 20 minutes to run.

Each tester see smoke test result from his/her email.

### What is Smoke Testing ?

- Smoke testing is **performed everyday** to determine whether the application is stable or not, and the qa environment is up and running .
- The **main goal** is **validating** the **critical** and **major** functionalities of the application.
- By performing smoke test before QA automation engineers start their days, the QA team confirms proceed with further testing.

### Is smoke testing performed automatically or manually?

- Smoke testing is **performed** at around 5 AM everyday morning in most of the companies **automatically**.
- **If there is any bug/error** found from smoke test, **then QA team** need to **test manually** to confirm the bug and identify which major function has the bug.

### How often do you perform smoke test?

Once everyday, before my team start working. (There are some companies run smoke test twice a day - one before working, one after working)

### How many scenarios do you have in your smoke test?

Ideal answer can be between 50 - 90 scenarios. In real work, the number is as little as 5 scenarios, or big as 200 scenarios.

However, in the interview, you want to answer the most common situation so you won't be questioned more detail about it.

### How long does it take to run smoke test?

Smoke test should takes around 15~30 minutes to run.

### Who select scenarios to smoke test list? How often add more scenarios to smoke test list?

Smoke test scenarios are selected in a meeting with all the testers.

More scenarios are added to run as smoke test, when there is a major function is developed to the app.

### How to get smoke test result?

Since smoke test is automatically tested, the **test result** is also automatically prepared and sent to each tester's **email**.

### How do you run your smoke test?

- we use **Jenkins** tool for **scheduling** and **running** out **automated** smoke tests.
- It runs everyday at 5 AM.
- I have **75 scenarios** in my smoke suite
- It takes around **25 minutes to run**.
- All the testers receive test **report** to their **emails**.



```
17 Lines (15 slocl) 411 Bytes
1  @logout
2  Feature: Log out feature
3  @smoke
4  Scenario: Driver
5    Given I login as a "driver"
6  When I logout
7    Then the page title should be "Login"
8  @smoke
9  Scenario: Sales manager
10 Given I login as a "sales manager"
11 When I logout
12 Then the page title should be "Loginw"
13 #
14 # @smoke
15 # Scenario: Store manager
16 # Given I login as a "store manager"
17 # When I logout
18 # Then the page title should be "Login"
```

QA testers' code / scenarios are stored in Github. There is "@smoke test" tag on top of the selected scenarios.



Jenkins

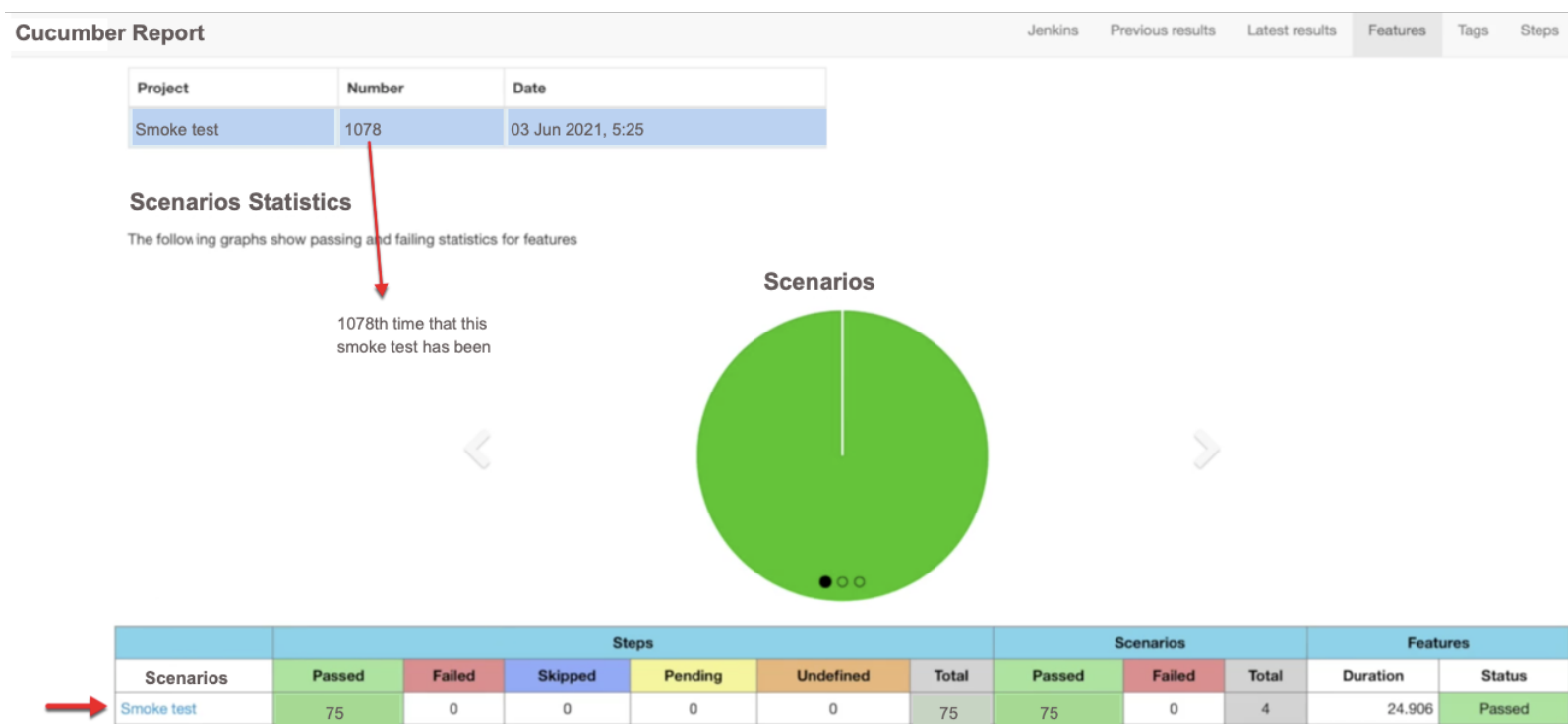
Project name: **Some Test**  
Code URL: **www.GitHub.com.compnyname/projectname**  
Goal : **tags="smoke"**  
Time : **5 AM** , Mon-Sun  
Report type: Cucumber Report  
Send-to:  
tester1@companyName.com  
tester2@companyName.com  
tester3@companyName.com

Can be added developers' emails:  
developer1@companyName.com  
developer2@companyName.com  
developer3@companyName.com

DevOps team creates jobs on the Jenkins tool. The above is one job for Jenkins to run smoke scenarios from github.

The smoke test job detail is:

- code location / url
- Time to run smoke test
- report type
- option to see the test result



Smoke test result -> Cucumber report sample

- Jenkins sends test result with colorful detail report.
- the report includes:
  - Total scenario numbers
  - Pass / fail / skip / pending status
  - Time duration
  - Frequency / repeated time number
  - Test executed data and time