

# Testing with Cucumber

Developing Cucumber-Based Automation

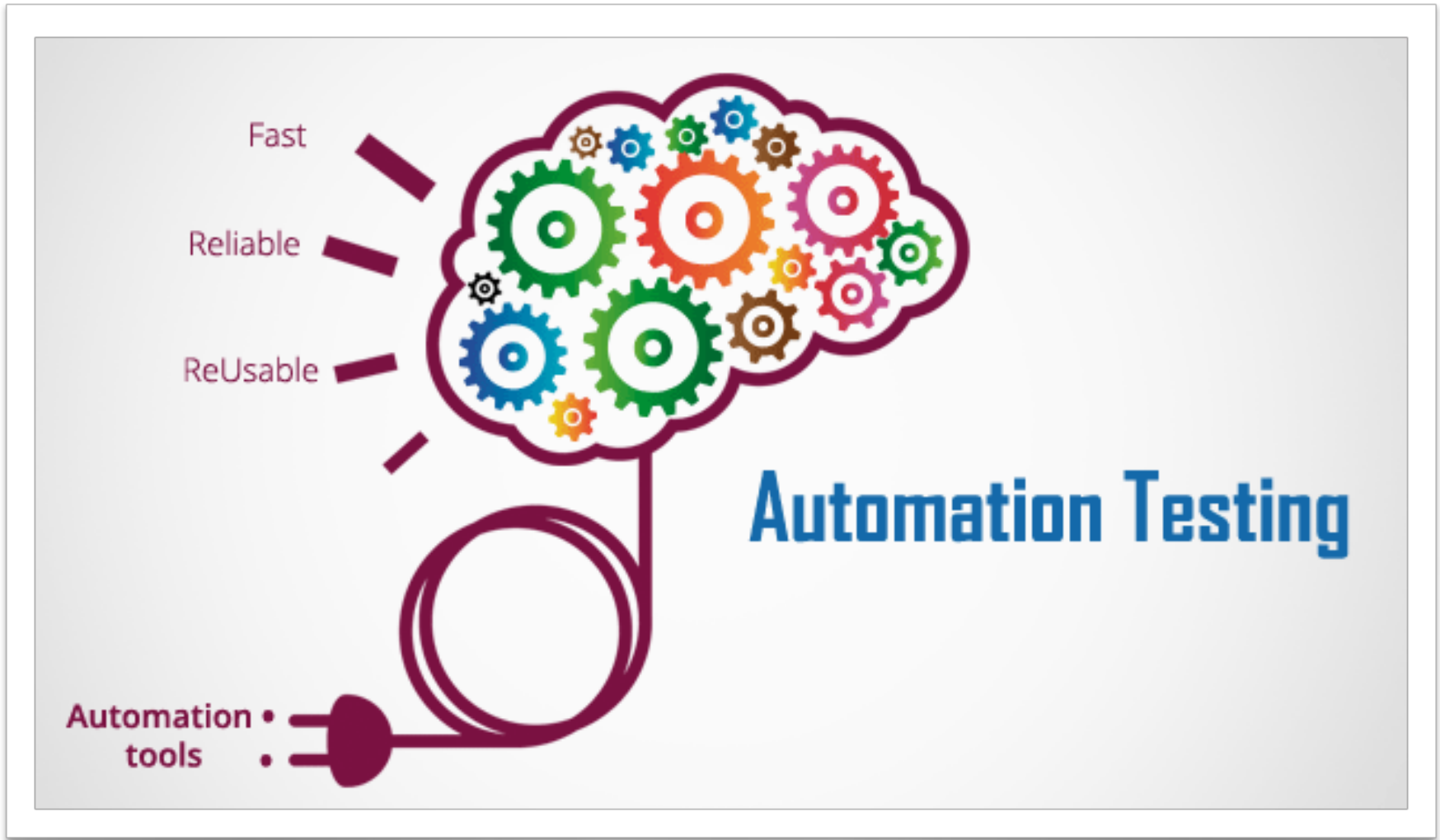
# Why Automation?



**Automated testing is important due to following reasons:**

- Manual Testing of all work flows, all fields, all negative scenarios is **time and cost consuming**
- Automation does not require Human intervention.
- Automation **increases speed of test execution**
- Automation helps increase **Test Coverage**
- Manual Testing can become boring and hence error prone.

# Benefits of Automation Testing



# What Are Benefits of Automated Testing?

Serious  
**Cost Reduction**

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The number of resources for **regression test** are reduced.

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You can reuse tests on **different versions** of an application, even if the user interface changes.



**Automated tools run tests** significantly faster than human users.

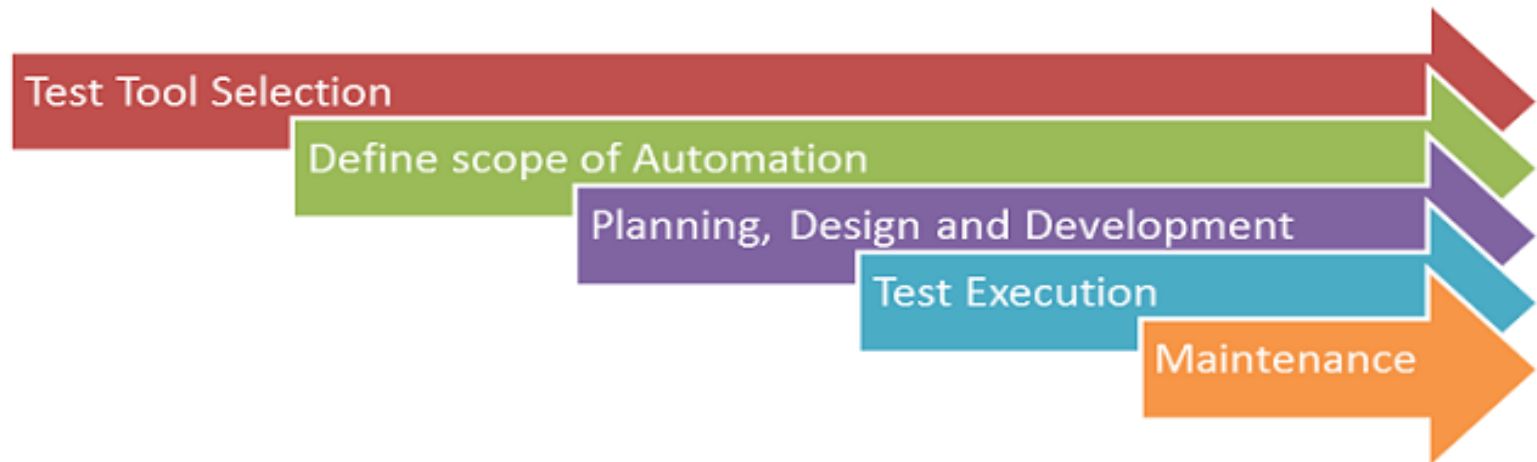
changes.  
if the user interface  
of an application, even



than human users.

# Automation Process

**Following steps are followed in an Automation Process**



# Cucumber

- Cucumber is a high-level testing framework that supports behavior driven development.
- It runs automated [acceptance tests](#) on web applications.
- Cucumber is a tool that executes plain-text functional descriptions as automated tests. The language that Cucumber understands is called [Gherkin](#).

# Why Cucumber?



*And...*

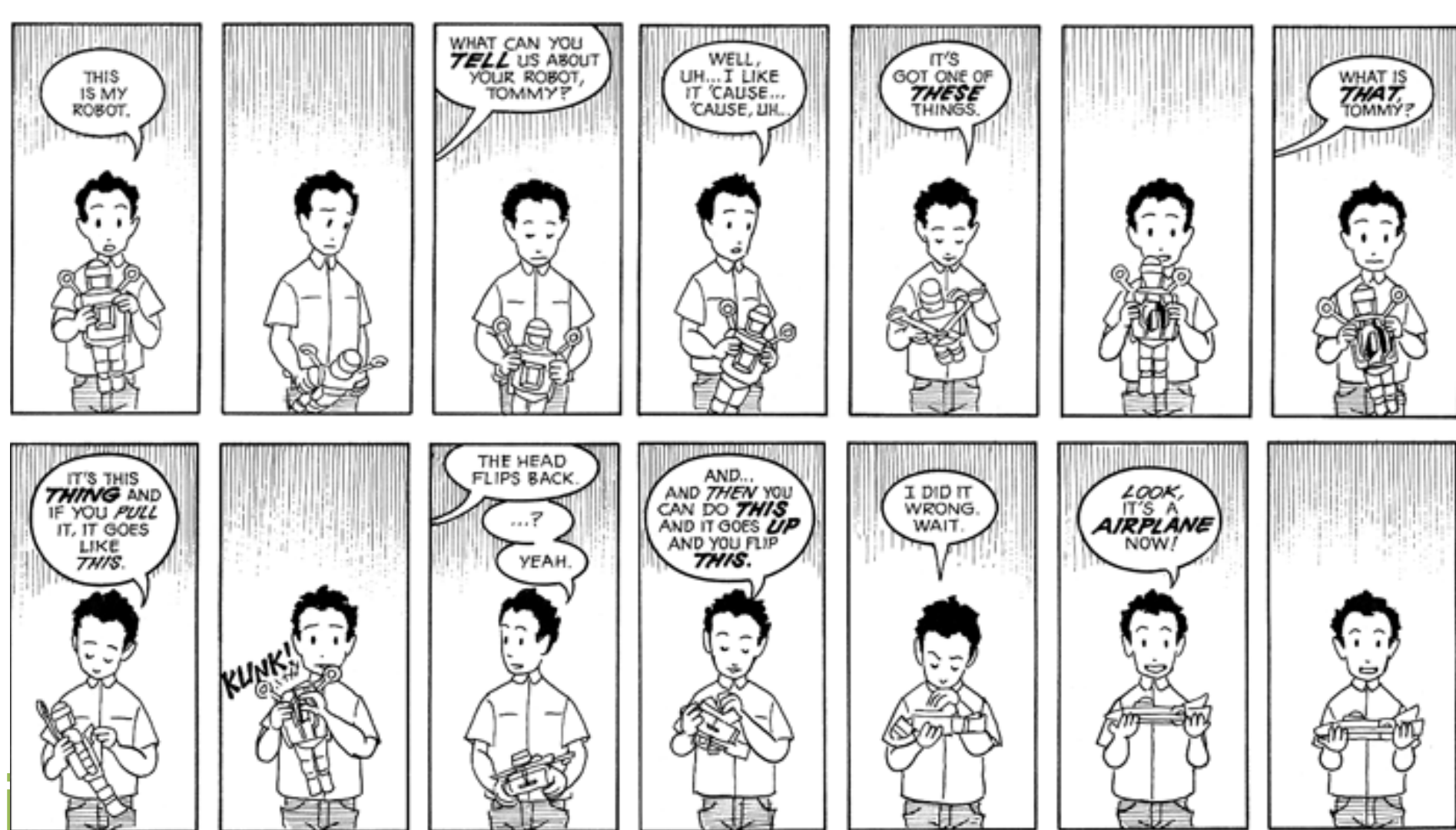
Is that  
Hebrew?



You don't  
understand your  
own code 😊

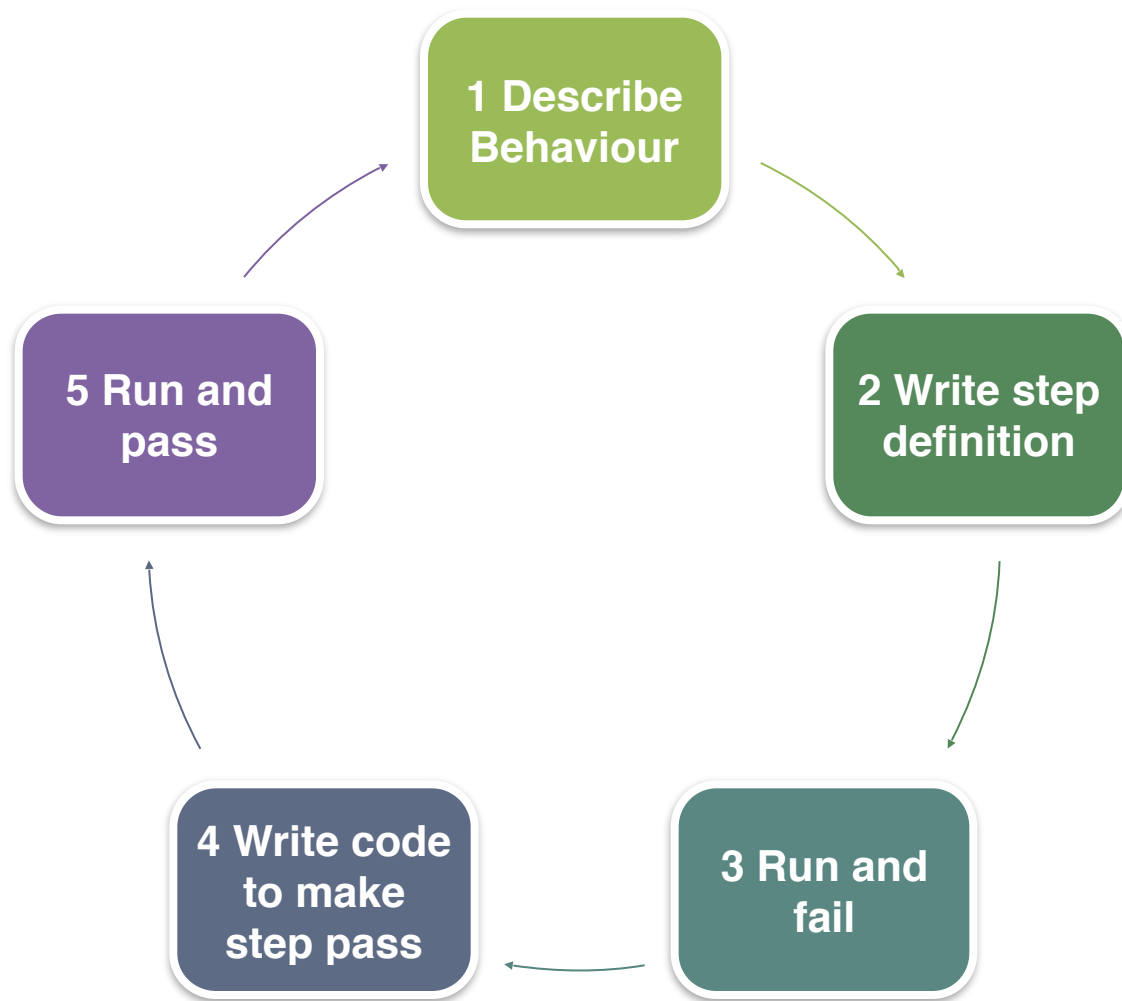






Describe the **behaviour** of your software in a very understandable way.

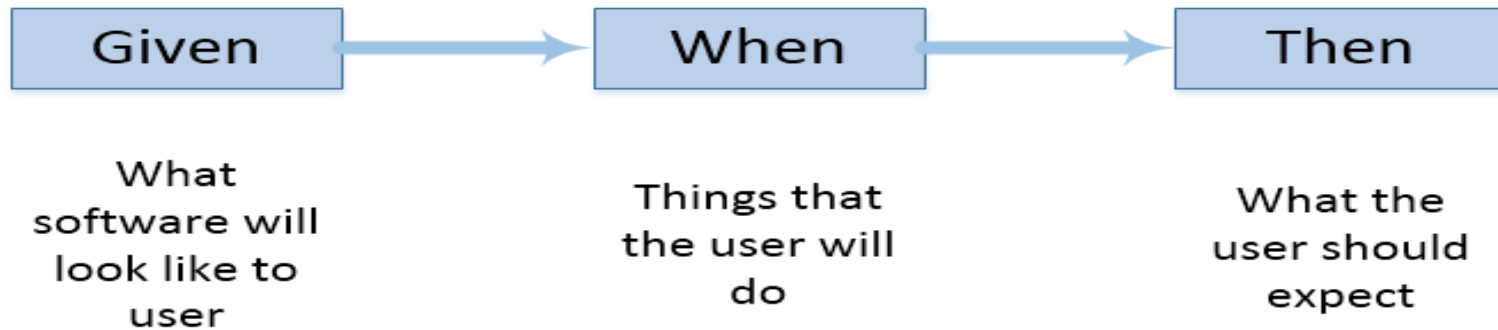




  
**Cucumber**

# Feature Introduction

Every .feature file conventionally consists of a single feature. A line starting with the keyword Feature followed by free indented text starts a feature. A feature usually contains a list of scenarios. scenarios together independent of your file and directory structure.



**Given** The login page is opening

**When** I input username, password and click Login button

**Then** I am on the Home page

# Cucumber Nomenclature

- **Feature:** Single file, ideally describing a single feature
- **Scenario:** A test case
- **Given-When-Then:** Test Preconditions, Execution and Postconditions
- **And:** Additional test constructs

# Behaviour

**Feature:** <short description>

<story>

**WHO?** As a <role>

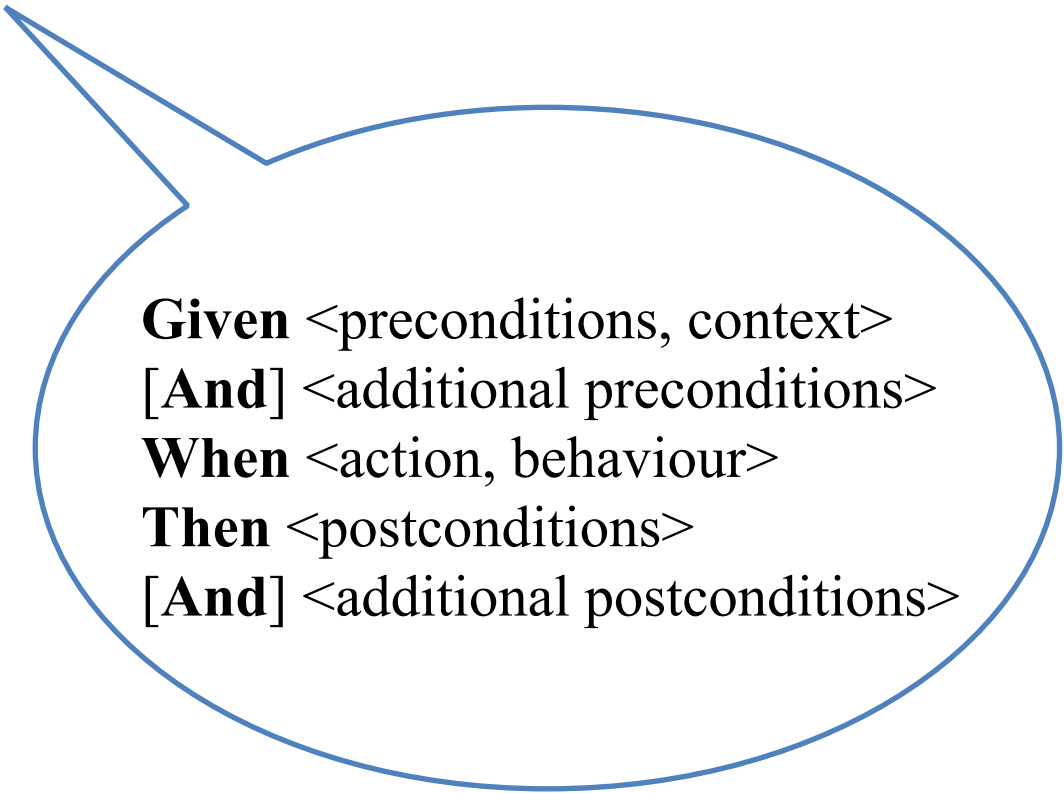
**WHAT?** I want <feature>

**WHY?** So that <business value>

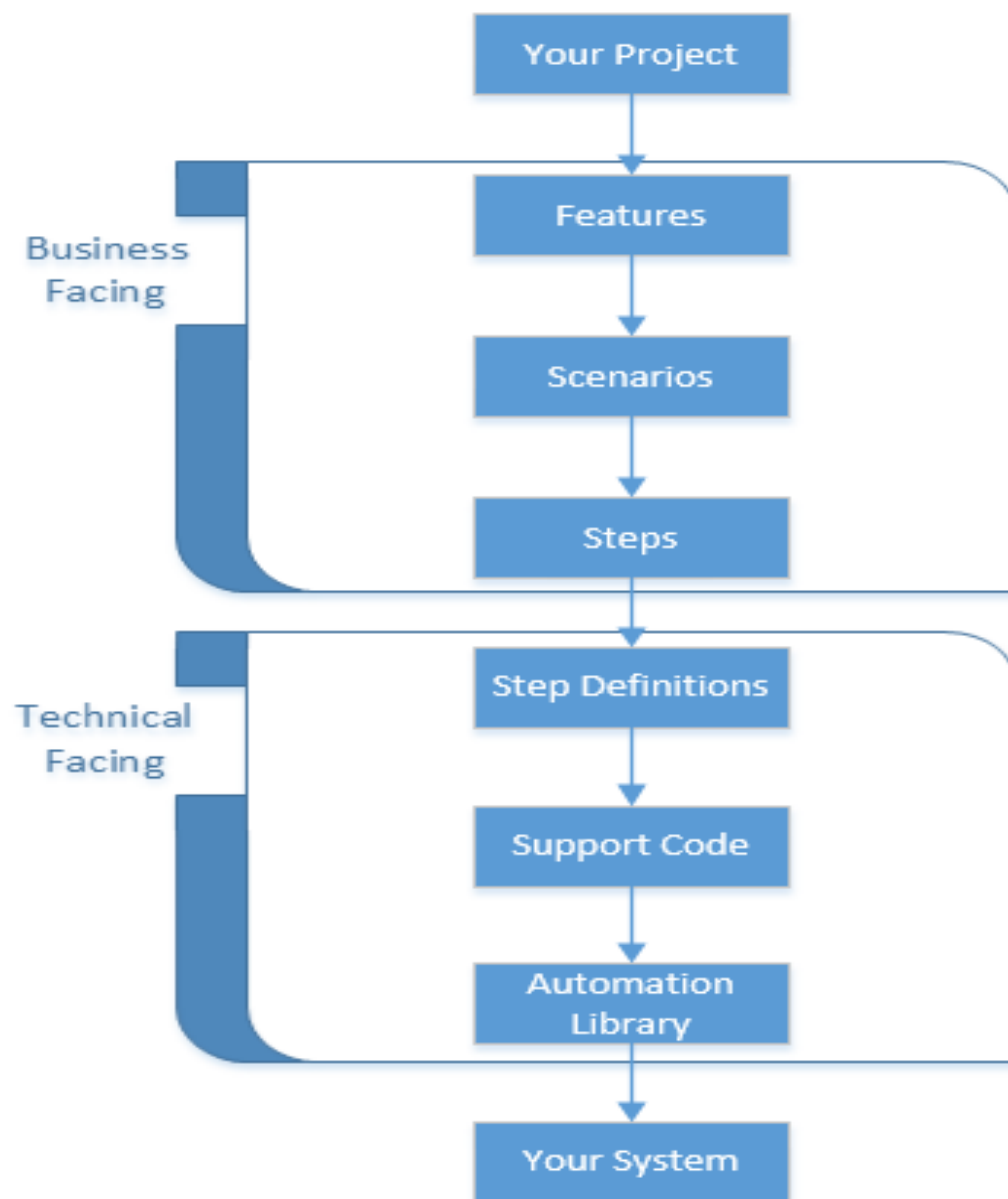
**Scenario:** <description>

<scenario 1>

<scenario n>



**Given** <preconditions, context>  
[**And**] <additional preconditions>  
**When** <action, behaviour>  
**Then** <postconditions>  
[**And**] <additional postconditions>





# What are the benefits?

- It is helpful to involve business stakeholders who can't easily read code
- Cucumber focuses on end-user experience
- Style of writing tests allow for easier reuse of code in the tests
- Quick and easy setup and execution
- Efficient tool for testing
- Instead of writing your tests purely in code, with Cucumber you start by writing a human-readable user story. Then, you write code to run the story and perform test(s) based on it.

# Human Language support

@admin\_login

## Feature: Landing page

As a Admin  
I want to see the landing page  
So that I can login to the application

@smoke\_login

**Scenario: Click on customer login button for the first time**

Given I am on Home page

When I click on Customer Login button

Then Login page for the user should be displayed

Given I login as a admin

When I click on Sign In button

Then List view page for the user should be displayed

List view page is displayed

**Thank You!**