

The left side of the image features a vertical strip with a textured, painterly background. It transitions from a bright yellow at the top to a deep red at the bottom, with some darker, more complex brushstrokes in the lower half. The right side of the image is a solid, light gray background.

Automation Testing Assignment

What did we just create?

- ❑ We just created a **Test Automation Framework**: “scaffolding that is laid to provide an execution environment for the automation test scripts” that we will write
 - ❑ *Page Object Model (POM): This is a design pattern to organize the different pages that Selenium will be interacting with into different classes*
 - ❑ *TestNG: a testing framework similar to JUnit 4 or Jupiter (JUnit 5) that gives us the ability to write tests (assertions, annotations such as @BeforeMethod, @AfterMethod, @BeforeClass, @AfterClass, etc). It also helps us to run the tests as well*
 - ❑ *Selenium: contains an API and functionality to communicate with the WebDriver in order to automate browser actions*
 - ❑ *Cucumber: BDD framework that provides the ability to easily organize our automation scripts around the user stories (primarily, the acceptance criteria of each user story)*

User Stories

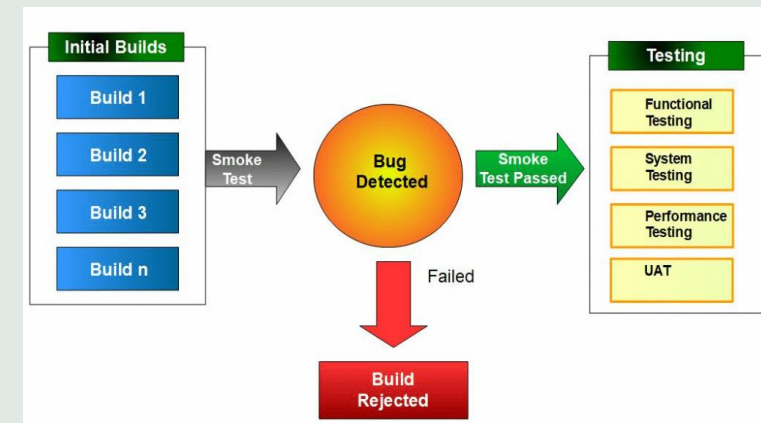
- ❑ As a user, I should be able to log in, so that I can book a tour **(user story)**
 - ❑ *Acceptance Criteria: a set of predefined requirements to mark a user story as complete*
 - ❑ *You can treat each acceptance criteria as a cucumber "scenario"*
 - ❑ Given that I am on the homepage
 - ❑ When I type into the username input the value of "mercury"
 - ❑ And I type into the password input the value of "mercury"
 - ❑ And I click the submit button
 - ❑ Then I should see the landing page with a header of "Login Successfully"
- ❑ As a user, I should be able to log out, so that I can end my current browsing session **(user story)**
 - ❑ Given that I am on the homepage
 - ❑ When I type into the username input the value of "mercury"
 - ❑ And I type into the password input the value of "mercury"
 - ❑ And I click the submit button
 - ❑ Then I should see the landing page with a header of "Login Successfully"
 - ❑ When I click the sign-off button
 - ❑ Then I should be back on the homepage

Cucumber

- Behavior Driven Development: we base our tests around user stories (in particular, the acceptance criteria)
- Cucumber is a framework that allows us to connect the user stories written in plain English to the actual Java code (Cucumber also works with other languages as well like JavaScript, etc).
- The plain English that the acceptance criteria is written in is in the form of feature files written using Gherkin syntax
- Gherkin syntax is easy for everyone to read and understand (Business Analysts, Product managers, Product owners, Developers, Testers, etc.)

Test Categories

- Regression Testing: re-run previous tests to make sure that nothing broke with new additions to the software. We are testing to make sure that the application did not “regress”.
- *Smoke Testing: preliminary testing to see if it is even worth our time to execute other tests (for example, if login is broken, you probably can’t do anything else either)*
- *Sanity Testing: usually unscripted, and is a quick narrow test on functionality to see if it is working at a glance*



One-on-ones for Tomorrow

- ❑ 10 that were not selected is top priority
- ❑ What questions were asked, what was your own impression after the interview, and given the knowledge now, do you think that you would pass on a second try?
- ❑ Technical question
 - ❑ *Agile/Scrum/SDLC (week 4 notes)*
 - ❑ *Testing Topics (types of tests, defect lifecycle, testing lifecycle, etc) (week 7 notes)*
 - ❑ *Selenium (syntax, general ideas)*
 - ❑ *TestNG (what annotations do we have, how are tests structured)*
 - ❑ *Cucumber (what types of files do we have related, what is the idea of BDD, etc.)*
 - ❑ *SQL (queries, conceptual knowledge of joins, clauses, SELECT FROM WHERE GROUP BY HAVING ORDER BY, etc.) (sqlzoo.net)*
 - ❑ *Java (potentially)*