## Plan

- Test Strategy vs Test Plan
- Test case
- Test suite
- Check lists



# Test Plan and Test Strategy

# Test Strategy



A **Test Strategy** is a plan for defining an approach to the Software Testing Life Cycle.

#### Scope

- Who will review and approve the document?
- Testing activities with timelines

#### Test approach

- Process of testing
- Testing levels
- Roles and responsibilies
- Types of testing

#### Test Environment

- Number and setup envs
- Backup of test data

#### Testing tools

- Auto
- Test
   Management
   tools

#### Risks

- List all risks
- Plan to mitigate

#### Approvals

- All reviewed
- All signed off
- Review changes traced

#### Test Plan



As per **ISTQB**: "Test Plan is a document describing the scope, approach, resources, and schedule of intended test activities."

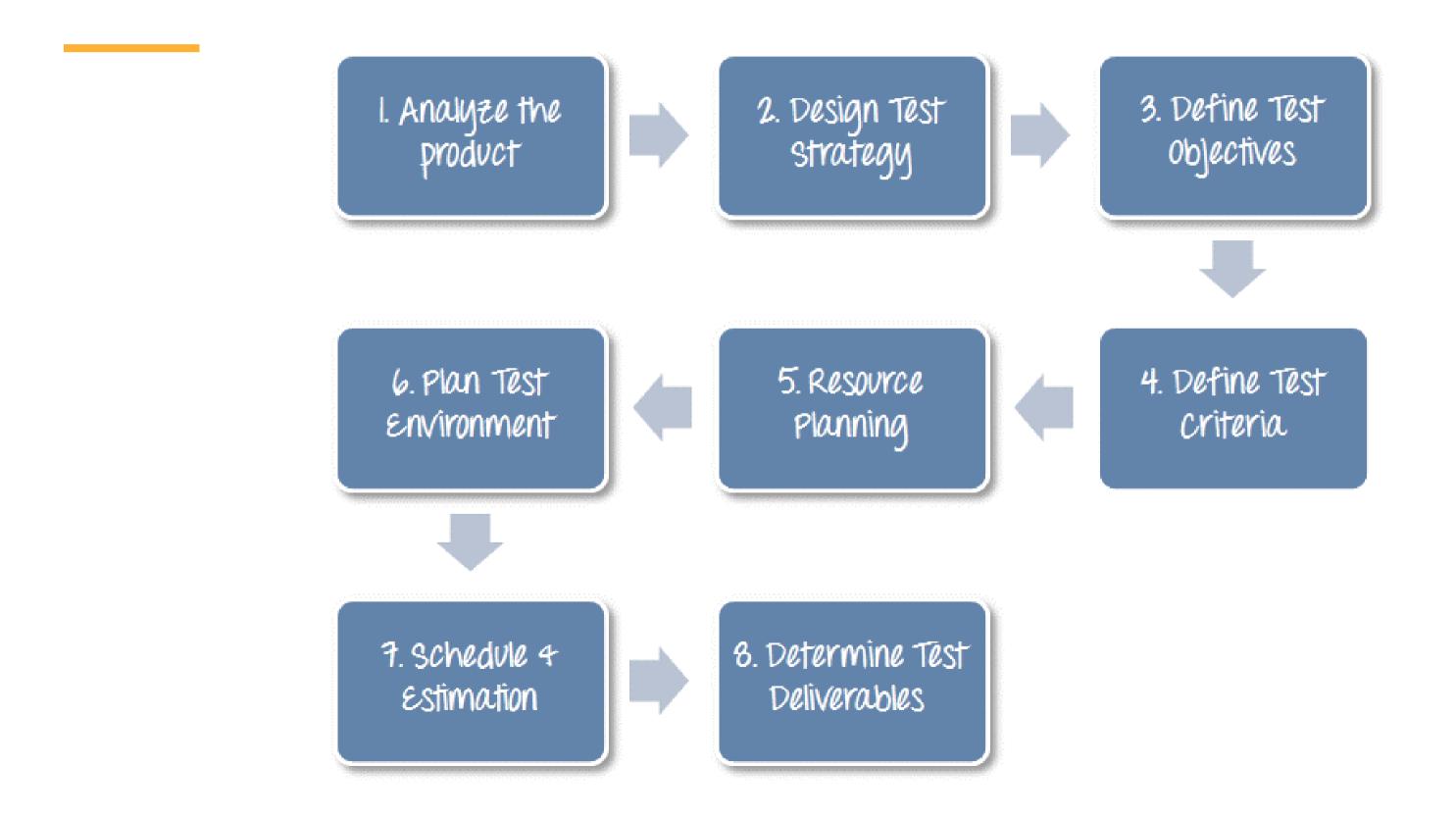
#### Types:

- Master Test Plan
- Test Plan (Detailed)
- Product Acceptance plan



### How to write a Test Plan



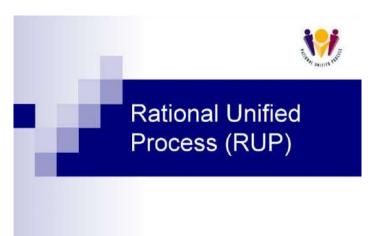


## Sections in Test Plan



- Introduction
- Scope (What will be tested and what not)
- How it will be tested
- Who it will be tested
- When it will be started
- When it will be finished
- Project milestones
- Risks
- Deliverables
- Signatures













# Test Plan VS Test Strategy



Test Plan	Test Strategy
It's a detailed document that objectives, schedule, estimation, deliverables, and resources required to perform testing for a software product	It's a high-level document with a set of guiding principles that determines the test design & regulates how the software testing process will be done.
A test plan exists individually	Test strategy can be a section of a test plan
Test plan can change;	Test strategy cannot be changed;
Test plan narrates about the specification;	Test strategy narrates about the general approaches
It is defined at project level	It is set at organization level and can be used by multiple projects

#### Test Plan Benefits



- Help people like test team, developers, business managers, customers understand the details of testing.
- Test Plan guides our thinking.
- Important aspects like test estimation, scope, deliverables are documented and approved in Test Plan





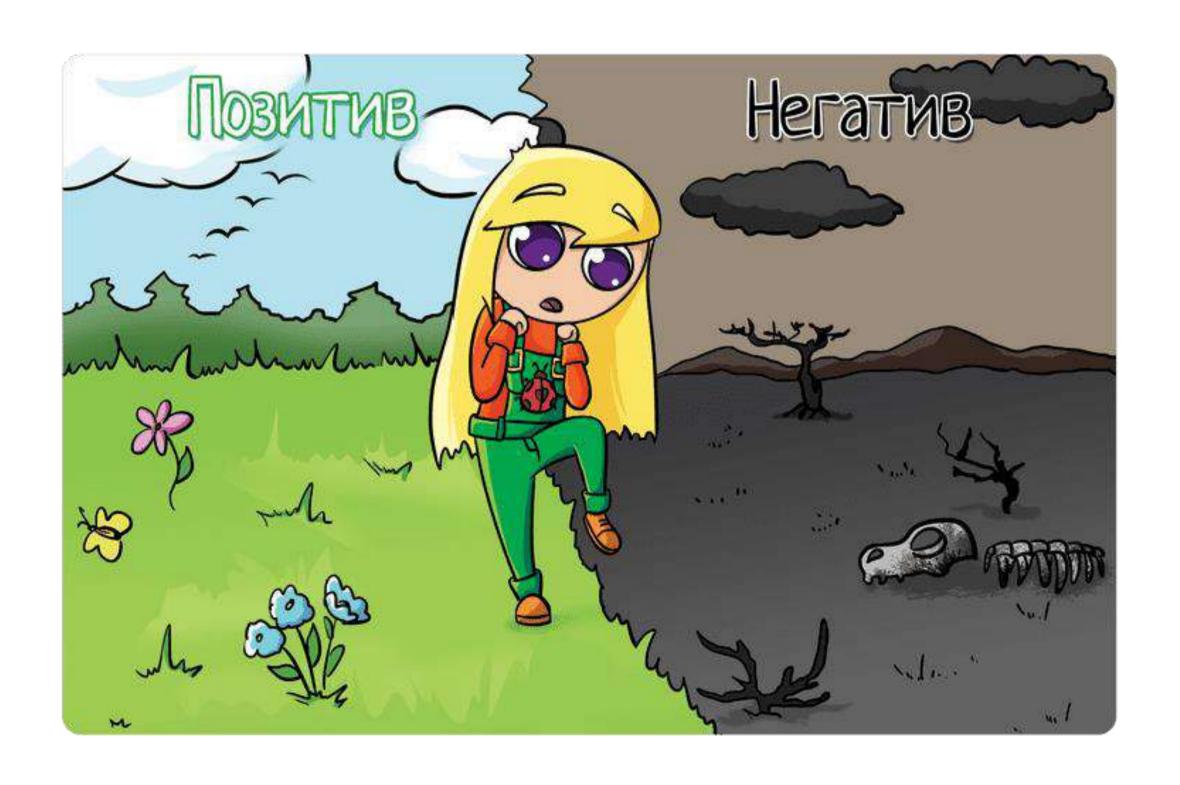
## What is a Test case?



A set of preconditions, inputs, actions (where applicable), expected results and postconditions, developed based on test conditions.

Steps	Expected result	Actual result	TC Status
Do A1	Verify B1	As expected	Pass
Do A2	Verify B2	C1	Fail
Do A3	Verify B3	Can't execute	Blocked

# By Expected Result



## Test Case fields



- Test Case ID (unique)
- Name / Title
- Priority
- Objective/ Test Scope
- Preconditions
- Test Steps
- Test Data
- Expected Result

- Author
- Labels
- Automation status
- Execution information
- Pass/Fail Statuses
- Review status
- Postconditions
- Comments

# Tips for test case writing



- Each Test Case must have only one objective
- Every Test Case must be complete
- Every test case must be repeatable and generate the same results
- Each Test Case should be simple and concise, with not more than 15 steps
- Don't make Assumptions while creating a test case
- Add all required information (DB scripts, tools, test files)
- Avoid dependencies and cross-links
- Avoid imperative mood



# TC example



**Task**: Test filter by category on site <a href="www.example.com">www.example.com</a>

Steps	Expected Result	
Go to site <u>www.example.com</u>	Site opens	
Open Filter	Filter categories available	
Select «Dress» > Press Enter	All dresses displayed	

## Pre and Post conditions.



Steps	Expected Result
Preconditions: Create items with categories: - A «Dress» - B «Shorts» - C «Dress» «Shorts» - D Without category	Items created. No errors
Go to site <u>www.example.com</u>	Site opens
Open Filter	Filter categories displayed
Select «Dress» > Press Enter	A, C Displayed B, D not displayed
Post Conditions: Remove test items A,B,C,D	

## The Pros and Cons



#### The Pros:

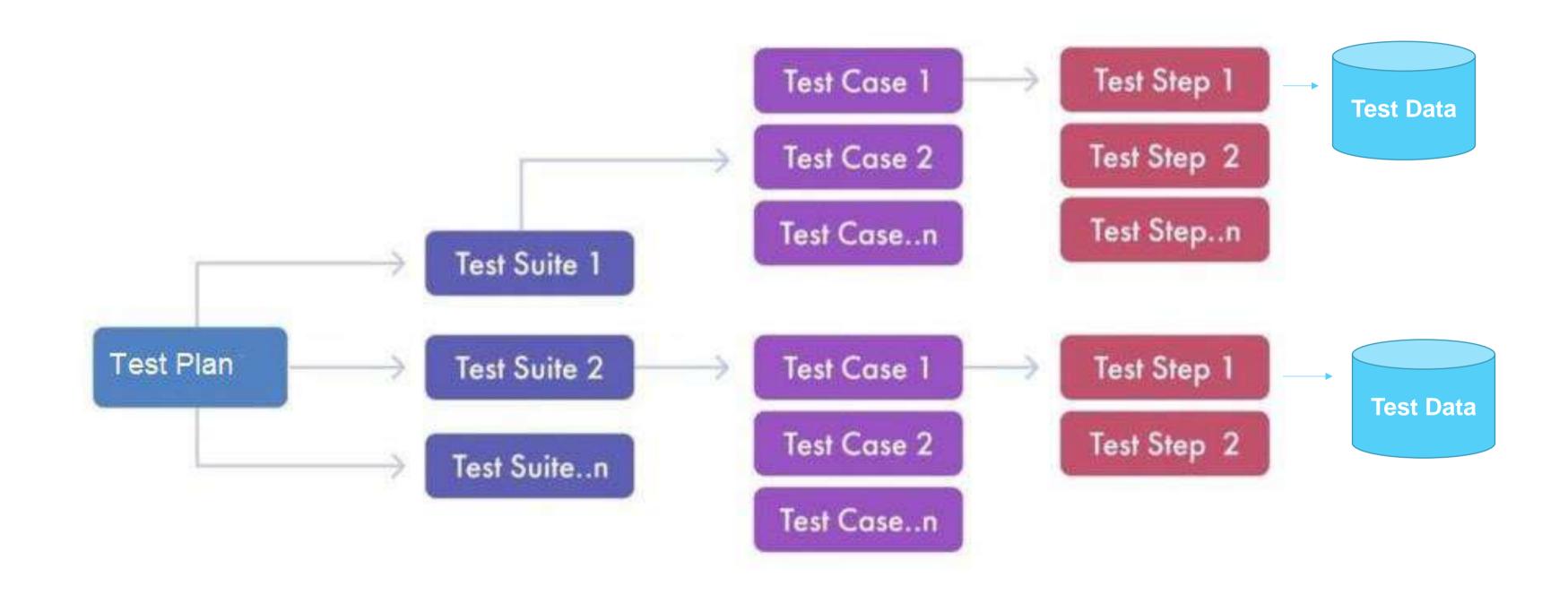
- Good test coverage
- Testing techniques implemented
- Reduced maintenance and software support costs.
- Reusable test cases.
- Confirmation that the software satisfies enduser requirements.
- Easy to automate
- Easy to execute
- Template

#### The Cons:

- Pesticide paradox
- Not flexible
- Increased Test Cases updates and support costs.
- Copypaste errors.
- Big documentation amount
- Template

## Test suite = A collection of test cases





# Test Management Tools

- Web based
- Integrates with Jira, Mantis
- Use template
- Progress tracking
- Test execution results

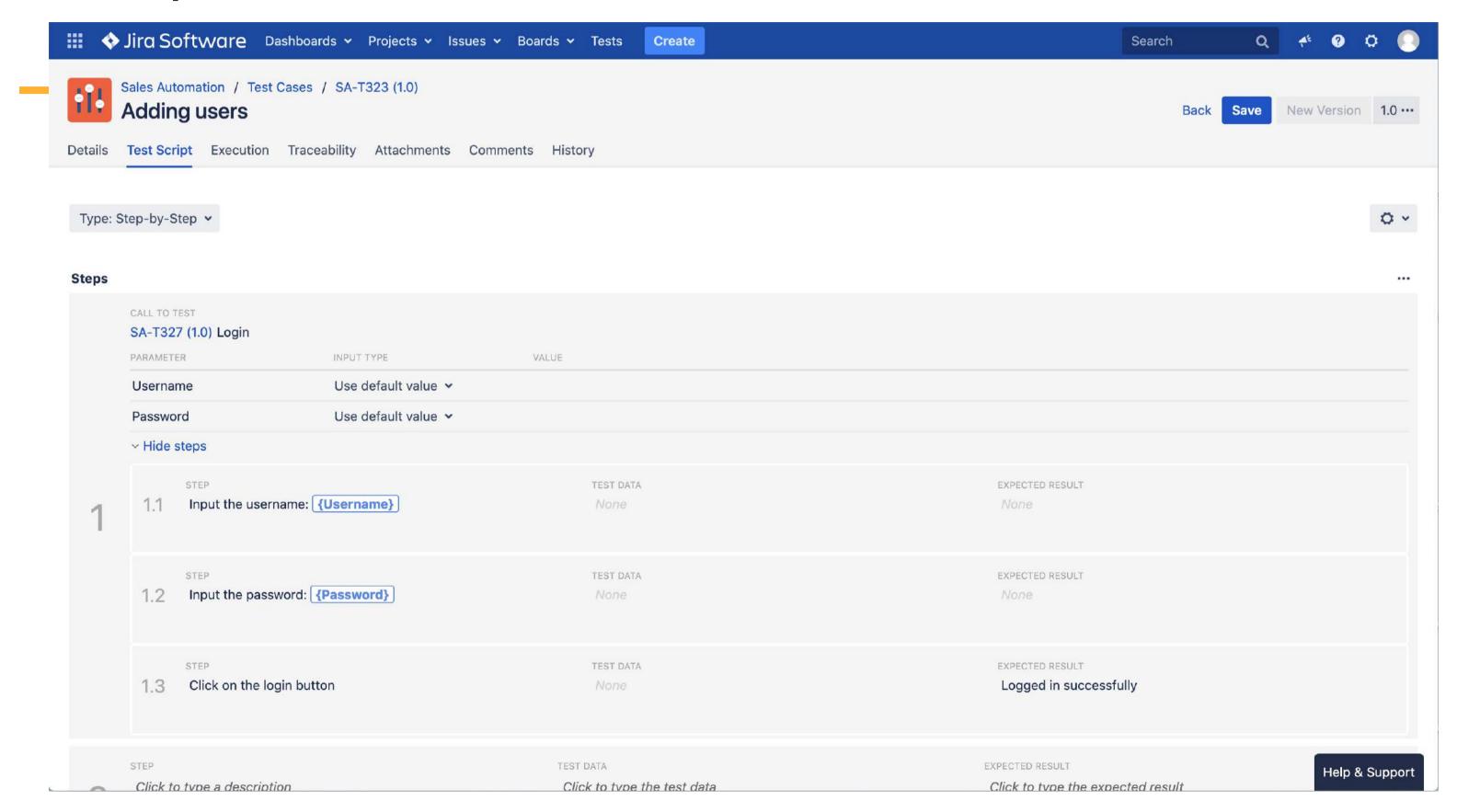




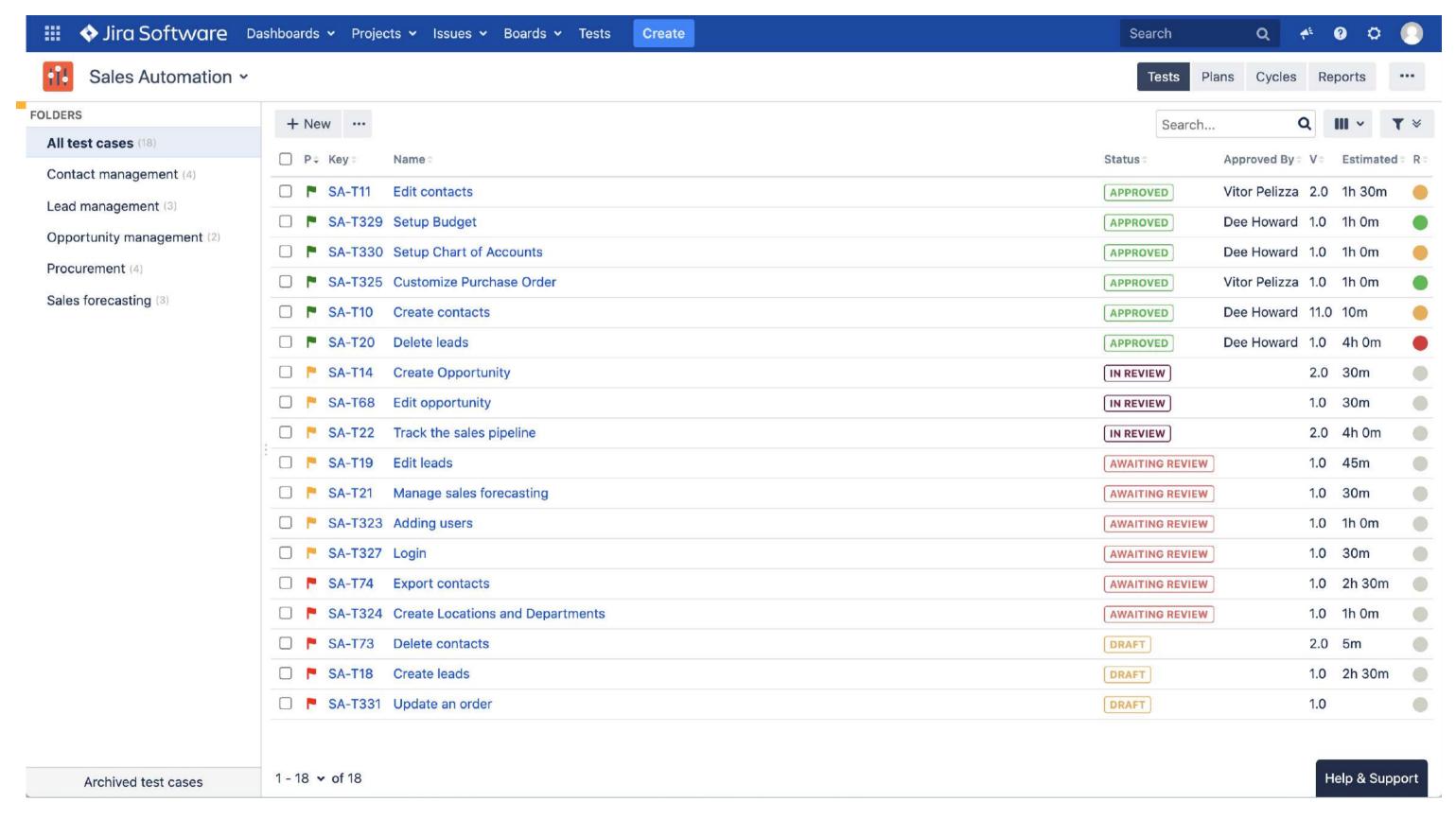


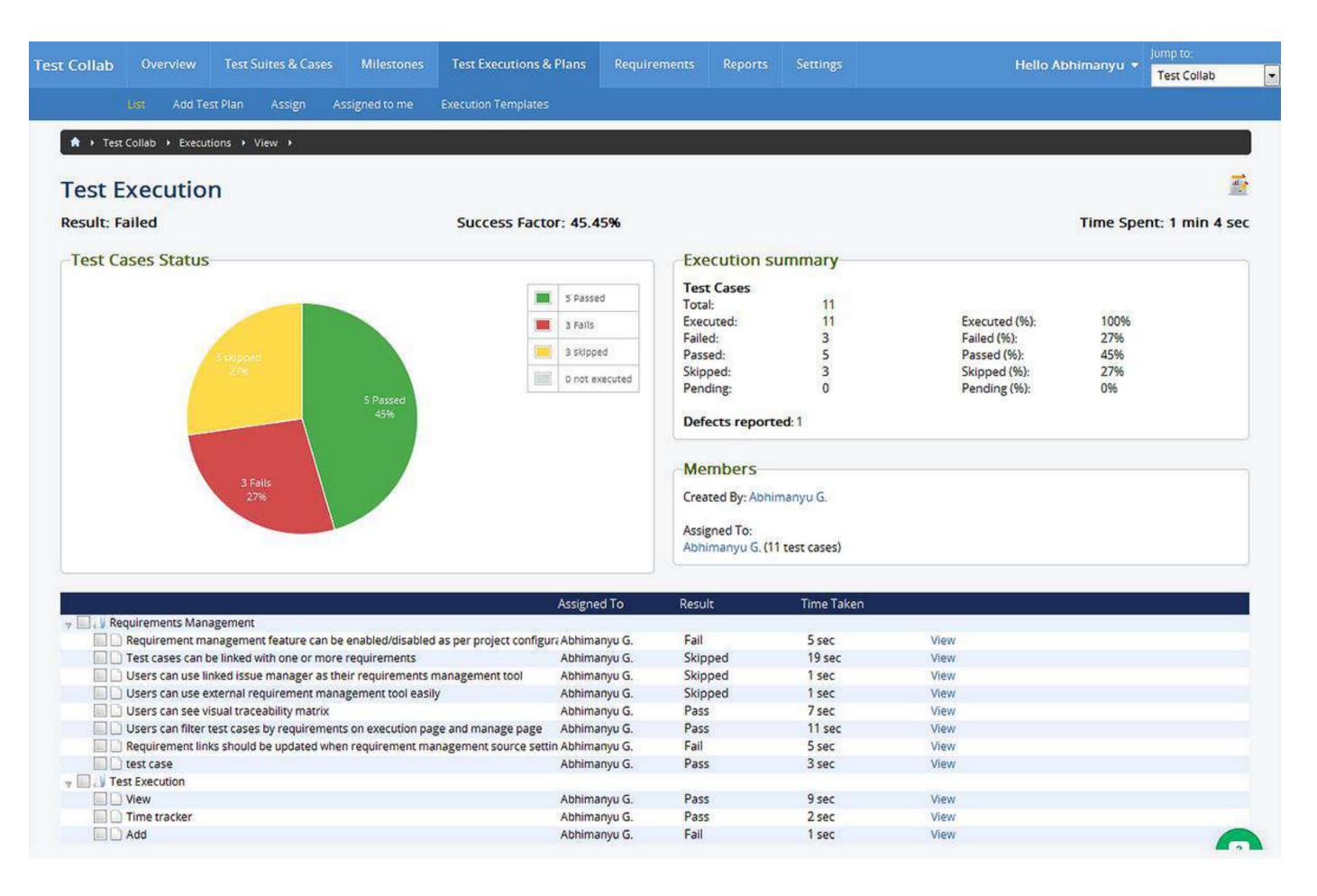
# Examples













# Checklist



## Checklist

Checklist – a list containing a number of necessary checks for any work.

What without How



	Tester 1	Tester 2	Tester 3
Site "checklist.example"	Firefox Browser 70.0.1	Google Chrome 78.0.3904.108	Opera 65.0.3467.42
Registration	Vii.	i la companya da c	
E-mail	Passed	Passed	No run
Social Media	Failed	Passed	Failed
Field validation	Passed	Passed	Passed
Authentication			
User is activated	Passed	Passed	Failed
User is not activated	Passed	Skipped	Passed
Password reset	Passed	No run	Passed
Field validation	Passed	Failed	Skipped
Profile	40	A	
Login reset	Passed	Passed	Failed
E-mail reset	Failed	Skipped	Passed
E-mail reset	Failed	Passed	Skipped
Field validation	Passed	Skipped	
Subscription	Failed	Passed	Passed
Delete account	No run	No run	No run

### The Pros and Cons



#### Pros:

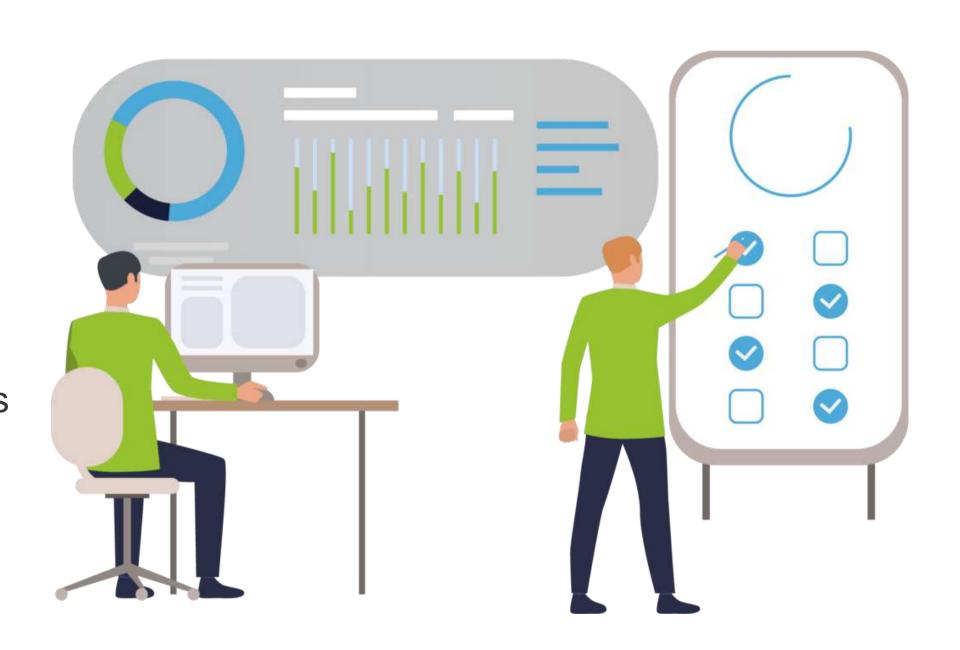
- No Pesticide paradox
- Less of time for creating and support
- Flexible
- All possible checks in one list
- Reusable
- Can store all executtion history

#### Cons:

- Automation impossible
- Need deep product knowledge to execute
- Uncertainty of test data
- No detalization

# How to create working Checklist

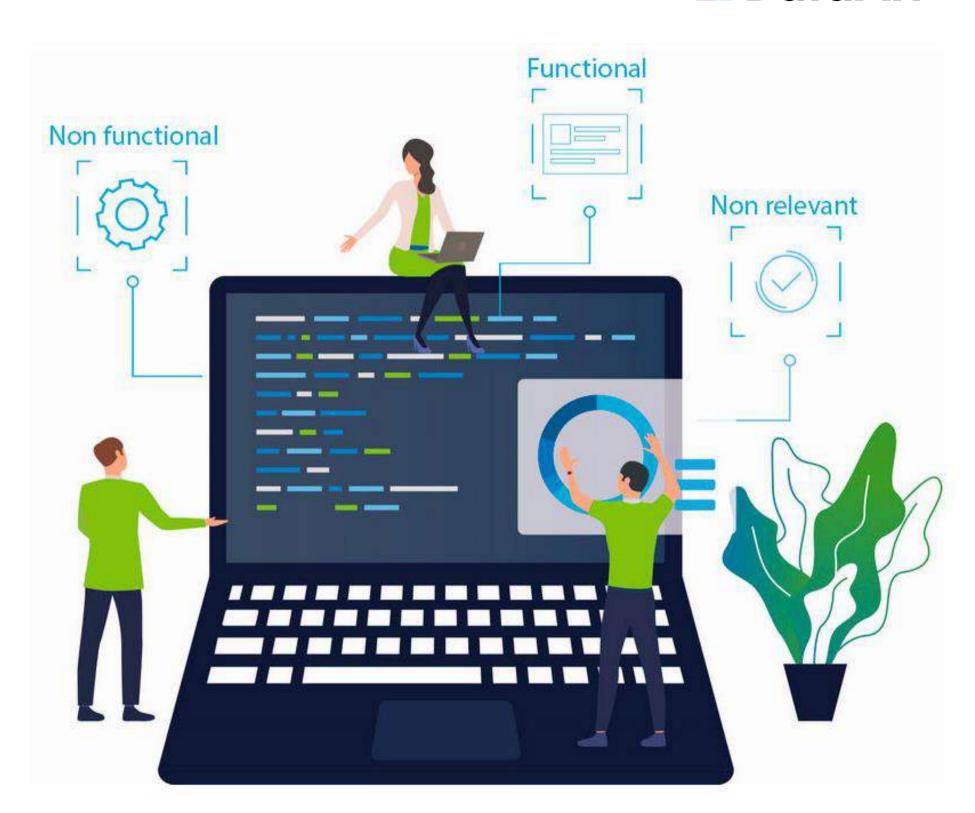
- One item = one check
- Requirements based
- Combine checks by categories /features
- Positive checks first inside each category
- Use your standards clear to all team members
- Detail the checklist depending on the task
- Combine the checklists into matrices
- Add test data examples if needed



## When to use



- Small project, short time period
- Cross browser testing
- Cross platform testing
- Smoke testing
- Ad-hoc testing
- GUI testing
- Performance testing
- DB testing
- Usability testing



Great! Questions time

