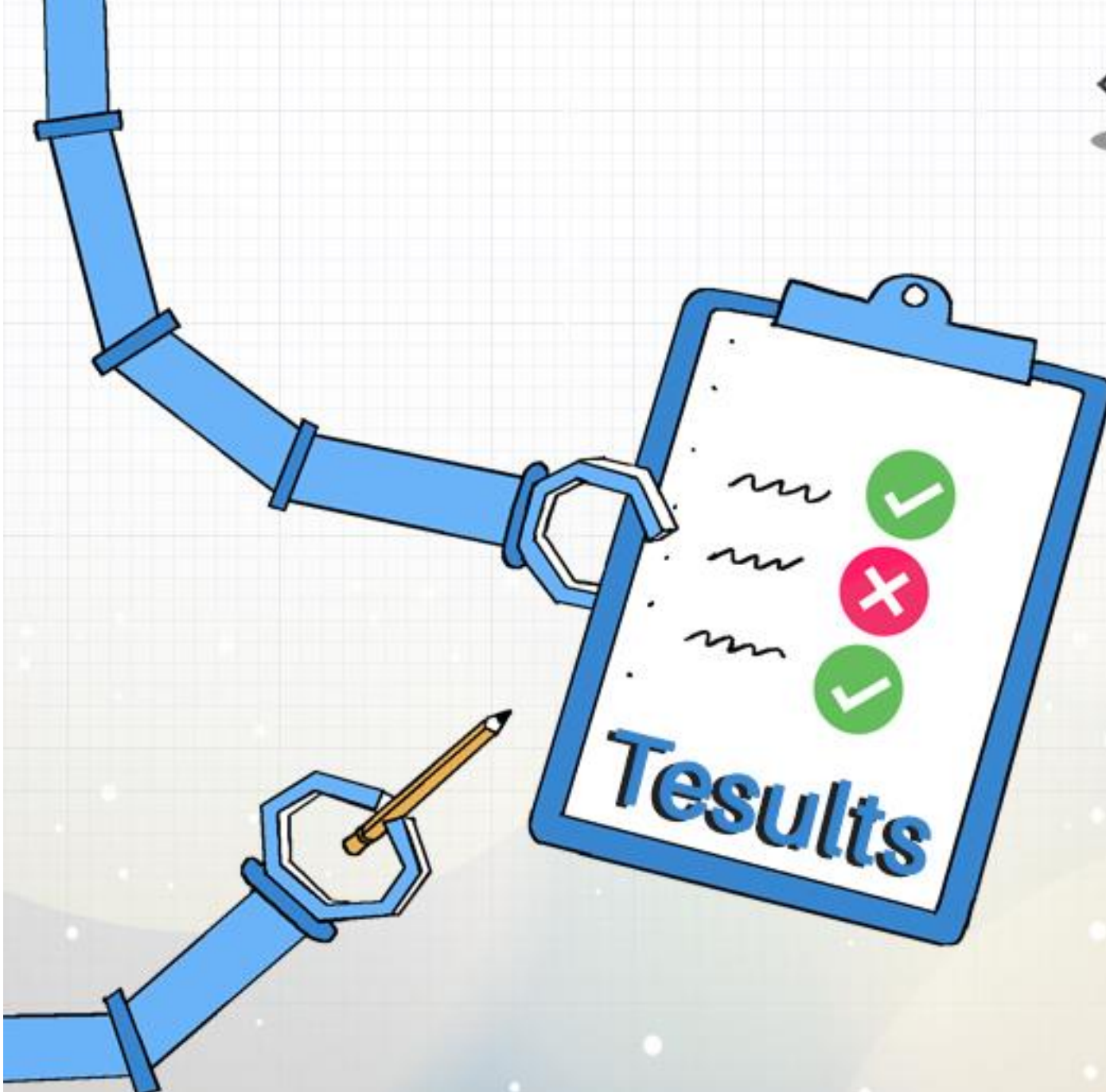




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About the Tutorial

In this tutorial, we look at how to report test results and manage test cases with Results, which is a web-based platform for test results reporting and test case management.

Audience

This tutorial is useful for anyone who already has automated tests created, or is in the process of creating automated tests, and anyone who is looking to manage and report manual test cases.

Prerequisites

Before proceeding with this tutorial, it is assumed that the reader has basic knowledge about test results reporting and test case management.

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1. Results — Overview

Software development teams have to understand the failures that have been identified from testing. They need to understand what test cases were run and what the reasons for the failures were and whether any regression or decline in quality has occurred.

Test reporting for both automated and manual testing, as well as managing of test cases is an important part of the development and testing tools stack. Ideally, test cases and test results should be easily accessible for all test runs.

Results is a web-based test results and test case management application. The objective of this tutorial is to demonstrate how to setup your tests to report results using Results and explain how to use the analysis and reporting features that are available.

Features of Results

Key features of Results are as follows:

- Test results reporting
- Test case management
- Consolidation of test results from parallel test jobs into a single run
- Consolidation of test results from across an application or project
- Notifications of results by email and other services such as Slack
- Storage of test generated data such as logs and screenshots.
- Assignment of test cases to team members
- Bug linking
- Flaky test indicator
- Test case comments
- Testing collaboration
- Performance data charting

Free and Paid Pricing

Results is commercial service with paid plans that teams can subscribe to. It provides a free project plan to use for evaluation. The free project has no time limit and can be used for as long as you want.

However, the free project is limited in a number of ways compared to the paid projects, most notably only one target (targets are explained in the next section) is provided and the number of test cases is limited to 100 for each test run.

For some open source projects, individuals and educators, and small teams getting started, Results provides discounted or even free offerings if requested by email as mentioned on their pricing page so even for teams that have no budget Results can be used.

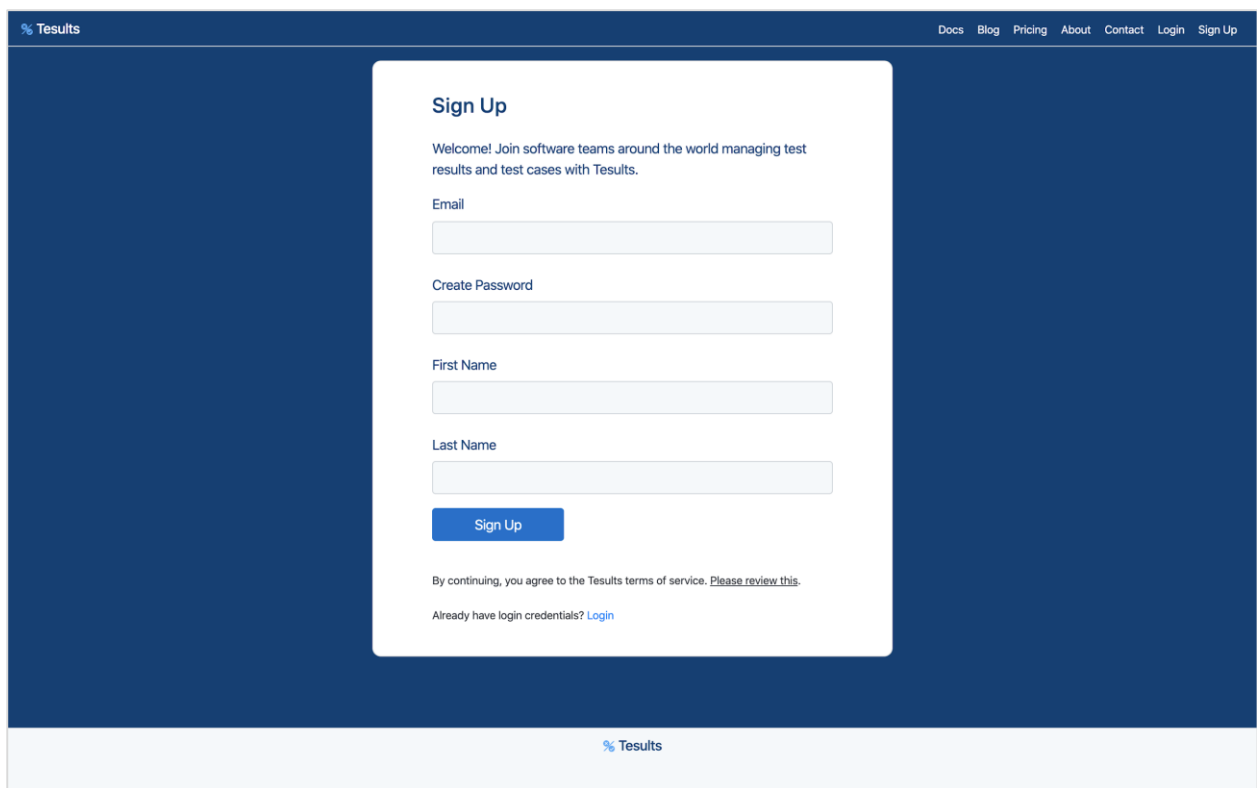
2. Results — Sign Up and Project Creation

This chapter deals with topics such as how to sign up, how to create a project and what exactly are targets in results.

Sign up

The first thing to do is sign up. Visit <https://www.tesults.com> and click **Sign Up** from the header.

To sign up, you must enter your email address, create a password and enter your name.

A screenshot of the Tesults website's sign-up page. The page has a dark blue header with the Tesults logo on the left and navigation links (Docs, Blog, Pricing, About, Contact, Login, Sign Up) on the right. The main content area is a white box centered on a dark blue background. Inside the box, the title "Sign Up" is followed by a welcome message: "Welcome! Join software teams around the world managing test results and test cases with Tesults." Below this are four input fields: "Email", "Create Password", "First Name", and "Last Name". A blue "Sign Up" button is positioned below the input fields. At the bottom of the box, there is a line of text: "By continuing, you agree to the Tesults terms of service. [Please review this.](#)" and another line: "Already have login credentials? [Login](#)". The footer of the page is a light blue bar with the Tesults logo.

Creating a project

After signing up, you are automatically logged in and can create a project. Click '**config**' from the header and then click '**Create New Project**'. You need to enter a name for your project.

After the project is created, a **'token'** will be displayed. This token is needed to submit test results to Tesults and should be copied. At any time, these token can be recreated from the configuration menu.

% Testults

ResultsTasksListsRunsDocsConfig

Configure ProjectCreate New ProjectConfigure Profile

The project has been created.
This is the target token for this project and default target:

eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpZCI6IjlkOZTYyYnNjIiwiaWF0IjoiMTUxMjE0MDUwLm5kIiwiaXNjaWkiOiJlbnRvcm9udC5kaWQoMTUxMjE0MDUwLm5kIiwiaWF0IjoiMTUxMjE0MDUwLm5kInQ.IHwZS6inQIFqLUimbmCLB9TrAJtzHrRRzbjVeHdmSDXWxswhrsr_WU4Y

The target token is required to be sent every time you post results using the results API.
This is the only time the target token will be displayed so copy it now and keep it safe. If you need to regenerate the target token you can do so later from project configuration.

Final Step

You are almost done setting up Results for your project! The only thing left to do is add a small amount of code to your test runner script. Select the language you use and complete the instructions:

JavaC#PythonRubyNode.jsKotlinGoPHPJavaScriptOthers

If you need help with this final step get in contact at help@testults.com and we will be happy to assist you.

Done

At this point the project is created. Next thing to do is integrate automated tests to push results data to Results.

Targets

Results uses the term 'target' to refer to a source of test results data, like a specific test job. The recommendation is to consider each target a bucket to upload test results to. Usually software development teams do not only run a single test run. They may run tests in different environments, on different devices, in different branches and for different modules of an application.

For example, if there is a back-end and a front-end, there may be API tests for the back-end and UI automated tests for the front-end. If these sets of tests are run in a development environment and in a staging environment, then there are four test jobs:

- Back-end development
- Front-end development
- Back-end staging
- Front-end staging

Results would consider each one a '**target**'. The reason for this concept of target has to do with making each test run comparable to the last and as a way to organise results data from various sources.

3. Tesults — Integrating Your Automated Tests

Tesults makes libraries available to integrate for various languages which includes:

- Python
- Node.js / JS
- Java
- C#
- Ruby
- Go

There is also a REST API available. To upload test generated data and files, one of the libraries must be used.

No code integration

For some test frameworks, it is possible to integrate without any code using test framework specific libraries that are available.

Test frameworks requiring no code to integrate include:

- pytest
- Robot
- Jest
- Mocha
- JUnit5
- NUnit 3

The integration process is similar for all of these libraries.

Install Plugin

Within your test project, install the relevant Tesults plugin. For example, if you are using pytest, this is done using **'pip install tesults'** followed by **'pip install pytest-tesults'**. If you are using Mocha, you use **'npm install mocha-tesults-reporter -- save'**. See the appropriate command for your test framework on the Tesults website.

Configure Plugin

Some plugins require no configuration and are ready to use immediately, some require a small amount of configuration. In the case of pytest, for example, no additional configuration is required and it is ready to use.

In the case of Mocha, a small change is needed to the **'mocha'** call, specifically the reporter needs to be specified, **'mocha --reporter mocha-tesults-reporter'**. See the Tesults website for specific configuration for the framework you are using but, in general, the configuration is a one-line change or no change.

Pass Args

There is a required argument to pass to the plugin and other optional arguments. The required arg is to provide the Results target token. This token was generated on project creation for the default target in the previous tutorial page. You can get a new token if you do not have this token from the configuration menu in Results. Click '**Regenerate Target Token**' in the configuration menu.

How to pass the argument depends on your test framework and plugin. For example, in pytest it can be provided in the pytest call '**pytest --results-target token_value**' or by using a configuration file. For Mocha, it is similar, it can be passed through in the mocha called '**mocha * --reporter mocha-results-reporter -- results-target=token**' or it can be passed in a configuration file.

The target token is the only required arg, there are optional args for passing in build information and for files upload. See the Results website for specific information on args for your test framework.

Run Tests

Run your tests and results will now be submitted to Results.

Code integration

If you are using a custom test framework or a test framework for which Results does not have a specific library or plugin you need to make use of one of the language frameworks.

Here, we will take a look at what is involved in integrating for Python. Other languages have very similar integration processes, see the Results website for specific details for your programming language but follow this tutorial first to get an idea of the process:

Install Library

For Python, the following is the command:

```
pip install results
```

For other languages, the process is similar, for JS test frameworks, you install the library from npm, for Java you can use Gradle or Maven, for C# the packages are hosted on NuGet, and Ruby has it available as a gem.

Configure Library

For Python, configuration involves just a **require 'results'** in any module you want to use the library. Again, similar configuration is needed in other languages. See the Results website for the specific configuration for your programming language.

Map Test Data

This step is something that the no code plugins allow you to avoid. For the code based integration you must map your test data to Results test data.

For Python, this means turning each test case result into a Python dictionary:

```
{
  'name': 'Tutorial 1',
  'desc': 'Tutorial 1 .',
  'suite': 'Tutorials Point',
  'result': 'fail',
  'reason': 'Assert fail in line 102, tutorialspoint.py',
  'files': ['full-path/log.txt', 'full-path/screenshot.png'],
  '_CustomField': 'Custom field value'
}
```

The name and result are required. Everything else is optional. The result must be one of **'pass'**, **'fail'**, or **'unknown'**.

The suite is useful to provide because it helps groups test cases when viewing results and helps avoid name conflicts. The reason should be provided for failing test cases.

Files are useful for ensuring logs and other test files are stored and can be viewed alongside the test case for which they are for.

You can also have any number of custom fields; they must begin with the underscore (_) character. For each test case, build up a dictionary in this way, and store them in an array.

Upload Results

To upload results, each library provides a results upload function. In the case of Python, you need to call the following:

```
results.results(data)
```

where the data parameter is follows:

```
data = {
  'target': 'token',
  'results': {
    'cases': [<your test cases>]
  }
}
```

The cases array is the array created in the section above.

For other programming languages, the process is exactly the same with just syntax changes.

Help

The Results website has a way to request help for integration if you need it.

Next Steps

At this point, integration is complete and we can look at how to view, analyse and take action from test results.

4. Results — View Test Results

Results provides three views into overall test results and one detailed test case view.

Results View

The results view is the primary way to view test results for a test run. All of the test cases for a test run are displayed and grouped by test suite.

If you have hundreds or thousands of test results, you can use the test suite collapse and expand buttons on the side to make navigating easier.

There are controls available to change the view. You can use these to:

- Change view type - results, summary, supplemental
- Change project - if you have multiple projects
- Change target - if you have multiple targets
- Change test run - you can select older test runs
- Search - useful if you have hundreds or thousands of test cases to search for a specific test case
- Sort by - you can choose to sort results by suite, result (pass/fail) and test name
- Filter by - you can filter to show only passes, fails or other results
- Refresh results - you can either click the refresh icon to manually refresh or enable auto refresh which will frequently refresh the view

The results view lists the total number of passes, fails, the total number of test cases and number of test cases by test suite.

% Testults Results Tasks Lists Runs Docs Config

PROJECT: Tutorials Point

TARGET: Tutorials Point Web Tests

RESULTS VIEW: Table Grid Calendar

DATE/TIME: Sat 19 Oct 3:37:54PM

SEARCH/FILTER TEST CASES:

REFRESH | AUTO REFRESH: ☐

SORT BY: Suite

FILTER BY: None

Tutorials Point Web Tests 92 % 23/25 Pass 25

⌚ Sat 19 Oct 3:37:54PM - a few seconds ago

Authentication (3/4) 4

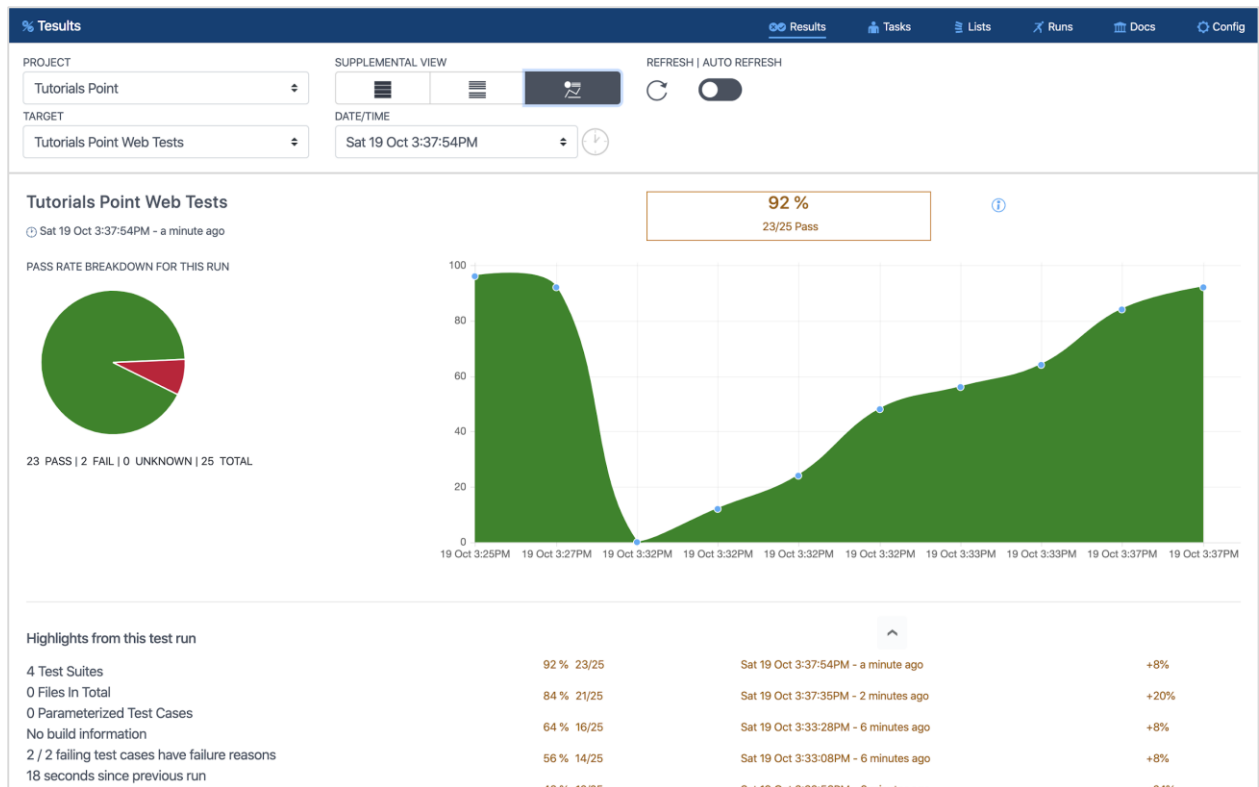
Sign Up	Authentication	✓
Sign In	Authentication	✓
Forgot Password	Authentication	✗
Reset Password	Authentication	✓

Load Page (8/8) 8

Home (Chrome)	Load Page	✓
Home (Edge)	Load Page	✓
Home (Firefox)	Load Page	✓
Home (Safari)	Load Page	✓
Login (Chrome)	Load Page	✓
Login (Edge)	Load Page	✓
Login (Firefox)	Load Page	✓

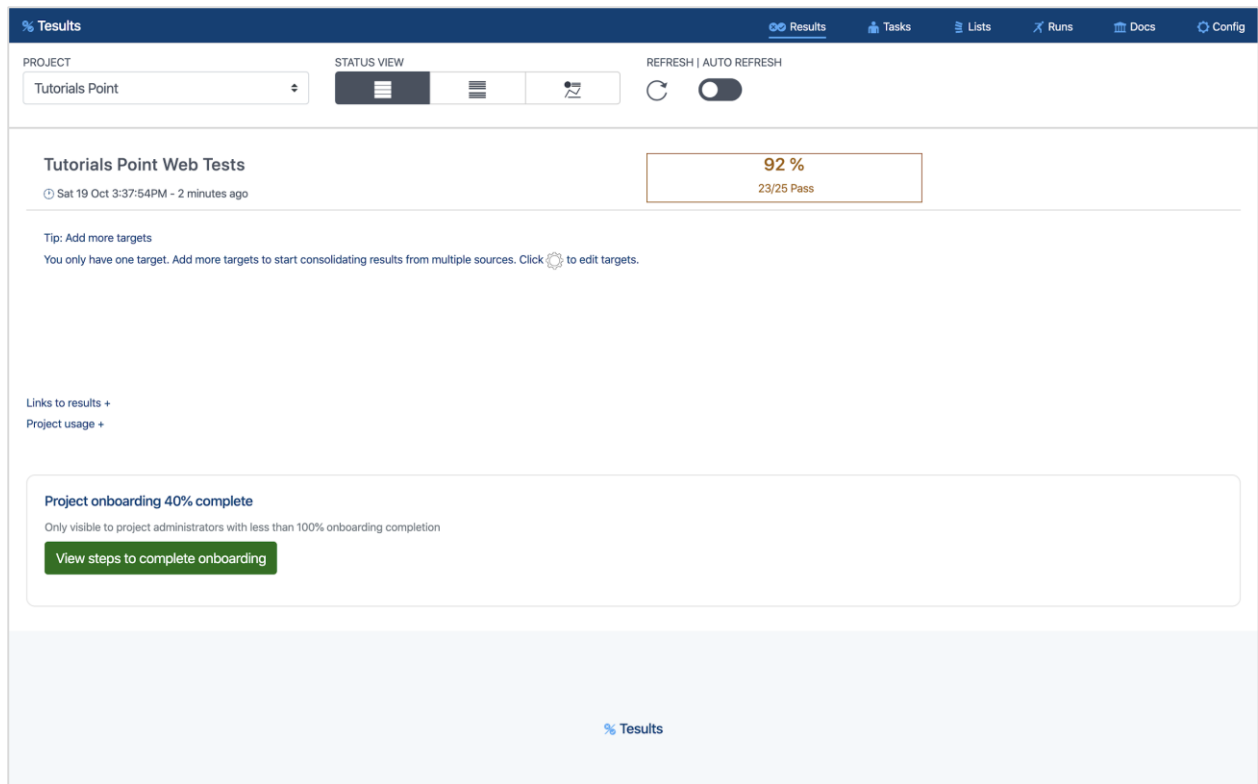
Supplemental View

The supplemental view is most useful for quickly finding out which test cases are new fails, old or continuing fails and new passes. Rather than having to figure this out in the results view, the supplemental view makes this information easily available by automatically comparing the latest results with previous test runs.



Summary View

The summary view is useful if you have many targets (test jobs). You can see the latest results from your whole project in this one view to find out whether there are specific areas that need attention.



Test Case Detail

In the results view, you can click on any test case to see detailed information about it. A test case specific view appears with fields including:

- Name
- Description
- Result
- Suite - This is the test suite the test case belongs to
- Failure reason - If the test case has failed
- Files - Files can be viewed here. Logs, screen captures and some csv files can be viewed inline within the window, other files can be downloaded
- Link - A direct link to this test case
- Associated bugs - Bugs from JIRA or other bug management systems that are linked to the test case
- Task - Used to assign the test case to a colleague, useful for, if a test case has failed and someone should be looking into it
- History - Displays the previous results of the same test case
- Comments - Comments specific to a test case can be added

By using the three high level views and the test case detail view, it is possible to get a complete understanding of test results.

Home (Chrome)	
Project: Tutorials Point Target: Tutorials Point Web Tests	
Authentication (3/4)	
Sign Up	Result
Sign In	Pass ✓
Forgot Password	Suite
Reset Password	Load Page
	Description
	Load home page
Load Page (8/8)	Associated Bugs (0)
Home (Chrome)	Edit
Home (Edge)	
Home (Firefox)	Files
Home (Safari)	Home.png
Login (Chrome)	
Login (Edge)	
Login (Firefox)	
Login (Safari)	
	History
	Sat 19 Oct 3:27:31PM ✓
	Sat 19 Oct 3:25:01PM ✓

5. Results — Team Members

You can add team members to your project so that others can login and view results. Also, you need to add team members if you want to assign test case failures to specific people to investigate, review results and add bug links and to comment on test cases.

Adding team members

Click '**Config**' from the menu bar and then click '**Team Members**'.

Add team members individually by providing their email address and click '**Add**'. Or add in bulk using a CSV file.

An invitation is sent to the email address you have added.

Add a team member

Enter the team member's email address to invite them to the project

Add

Add multiple team members

Add multiple team members at once by importing a CSV file with emails. The first row must be a header row with the name:

- email

The email field is required.

Example:

email

example1@example.com

example2@example.com

example3@example.com

Choose File

No file chosen

Back

Team member roles

1. Member

Most team members should be ordinary members. Members can view results for the project, assign failing test cases (tasks) and receive notifications.

2. Moderator

You can also remove team members here and change their role.

Team member roles

There are five team member roles. When a new team member is added they are automatically **level 1 - Member**. This role can view results.

If you want a team member to be able to manage test cases they must be changed to **level 2 - Moderator**.

The next role, **level 3 - Administrator** can also manage the project such as adding targets.

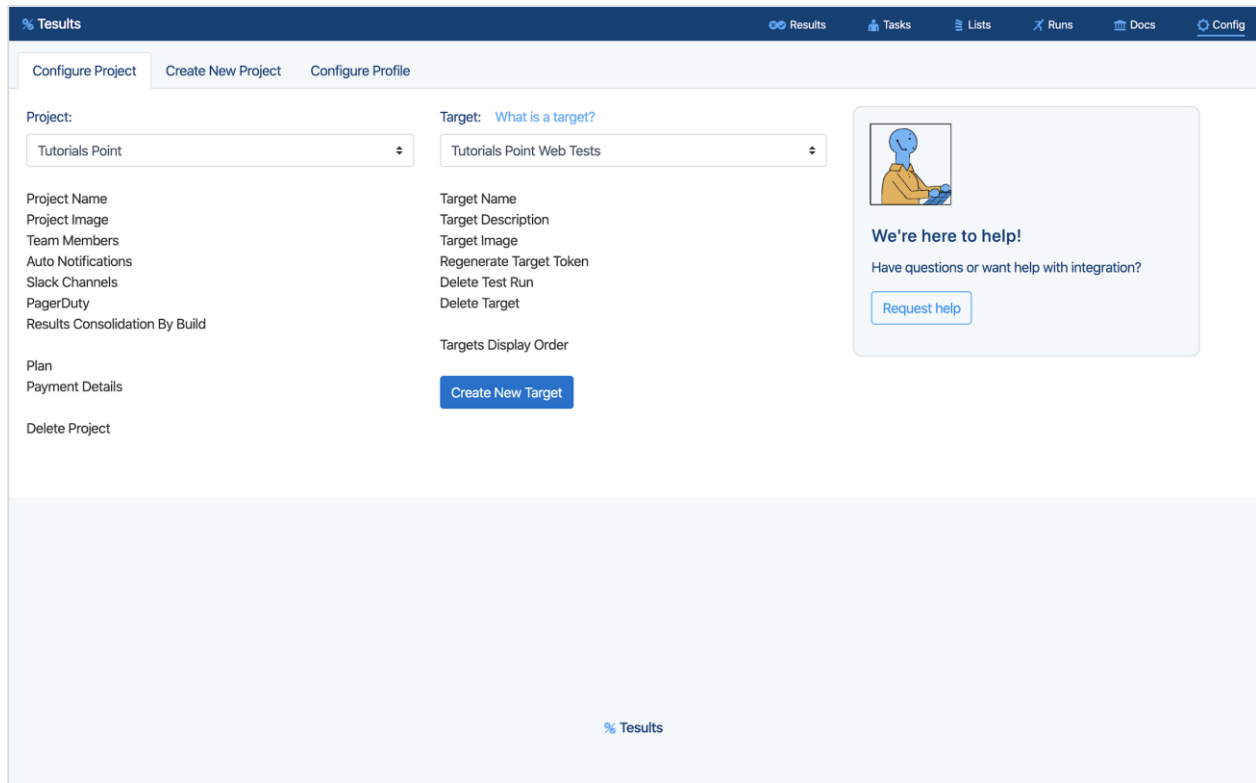
The next role, **level 4 - Officer** can also edit the project plan details and payment information.

Level 5 is the **project owner**; this will be you if you created the project. This role is the only one that can delete the project.

6. Results — Project Configuration

You can use the configuration menu to apply changes that can affect your project.

Click '**Config**' from the menu to open the configuration menu.



The screenshot shows the '% Results' configuration menu. At the top, there's a navigation bar with icons for Results, Tasks, Lists, Runs, Docs, and Config. Below this, there are three tabs: 'Configure Project', 'Create New Project', and 'Configure Profile'. The 'Configure Project' tab is active. It contains two main sections: 'Project' and 'Target'. The 'Project' section has a dropdown menu for 'Project' (currently showing 'Tutorials Point') and a list of options: Project Name, Project Image, Team Members, Auto Notifications, Slack Channels, PagerDuty, Results Consolidation By Build, Plan, Payment Details, and Delete Project. The 'Target' section has a dropdown menu for 'Target' (currently showing 'Tutorials Point Web Tests') and a list of options: Target Name, Target Description, Target Image, Regenerate Target Token, Delete Test Run, Delete Target, and Targets Display Order. There is a 'Create New Target' button. On the right side, there is a help box with an icon of a person thinking, the text 'We're here to help!', and a link to 'Request help'.

Targets

One of the most important things you can do from this menu is create and edit targets. Targets correspond to test jobs, so for every test run you want to report results with Results you need to create a corresponding target.

Click '**Create Target**' to create a target.

You can also edit the target name here and also regenerate the target token here.

If you have many targets you can also modify the order they appear in the Summary view and also in dropdown selection lists from here.

You can delete targets here too.

Team Members

Add and edit team members by clicking '**Team Members**'. The previous section talked about adding team members in detail.

Notifications

You can choose to enable and disable notifications by clicking 'Auto Notifications'. You can choose whether to send notifications after every test run or only if the results have changed. The second way helps reduce spamming of results data when nothing has changed.

Integration with other Services

The configuration menu is also where you can integrate your projects with external services like Slack. For Slack, you can setup notifications to be sent to specific Slack channels for the whole project or for different Results targets.

Click '**Slack Channels**' to configure which Slack channels should receive notifications.

Plan

You can change your plan type by clicking '**Plan**'. For this tutorial we created a free project.

Results Consolidation by Build

If you run parallel test runs but the results should be consolidated as a single test run, you can enable consolidation by clicking the '**Results Consolidation by Build**' link from the configuration menu. Then, if the build name for a test run matches the build name for another test run, all the results are consolidated so that you see everything in one test run.

Delete Project

To delete your project, click **Delete Project** from the configuration menu.

7. Results — Actioning Tasks Based on Test Results

Every test case can be treated as a **'task'**. This can be useful for processing failing test cases.

Assign failing test cases

Here, you will understand how to assign failing test cases to team members.

If you open the test case for a failing test case, you will see a field named **'Task'**. There is an **'assign'** button. If you click that you will see a dropdown list of all of your project team members.

The screenshot displays a test case failure modal for 'Forgot Password' under the 'Authentication' suite. The modal includes fields for Result (Fail), Suite (Authentication), Description (Forgot password), Failure Reason (Failed to send forgot password email.), Associated Bugs (0), Task (Assign this test case failure to a team member), and a History list of test runs. The 'Task' field is highlighted, and the 'Assign' button is visible. The background shows a list of test cases with the 'Forgot Password' case highlighted in red.

Choose the team member you want to look into the test failure. They will then receive an email notifying them that they have been assigned the task.

Resolving test cases

If a task is assigned to you, you can set the task to resolved if you believe a fix has been implemented.

Resolution notifications

If a test case passes in the next test run, the task is automatically resolved and an email is sent to whoever the task is assigned to letting them know the test has passed and the task will be removed.

Monitor flaky test cases

Results adds a 'flaky' icon next to the name of any test case that looks like it has changed results between pass and fail a few times. The intention is for the test case to be investigated to find out if: -

- There is a problem with the test case itself that makes it pass sometimes and fail at other times.
- There is a bug in the system under test that shows up sporadically.

Link bugs to test cases

If a failing test case is due to a known bug or if you create a new bug because of a test fail, you can link the bug you create in your bug tracking software, e.g. JIRA, to the test case. Just paste the link from the bug tracker. Then, Results adds a '**bug**' icon next to the name of the test case to show a bug is linked.

The screenshot displays the Results application interface. On the left, a sidebar shows the project 'Tutorials Point' and target 'Tutorials Point Web Tests'. The main area shows a test case 'Authentication' with a 'Forgot Password' description. A modal window is open for the failed test case, showing the failure reason 'Failed to send forgot password email.' and an option to 'Associate a bug. Link to a bug/issue in your bug tracking software.' with a text input field and 'Save Changes' and 'Cancel' buttons. Below the modal, there is a 'Task' section with an 'Assign' button. The 'History' section shows a list of test runs with timestamps and status icons (red 'X' for fail, green checkmark for pass). The 'Case Link' section shows a URL: <https://www.results.com/results/failed/testcase/194a62625-0-61-4217-0030...>. On the right, a sidebar shows a list of test runs with status icons and a count of 25.

PROJECT

Tutorials Point

TARGET

Tutorials Point Web Tests

RESULTS VIEW

DATE/TIME

Sat 19 Oct 3:37:54PM

SEARCH/FILTER TEST CASES

REFRESH | AUTO REFRESH

REFRESH

AUTO REFRESH

SORT BY

Suite

FILTER BY

None

Tutorials Point Web Tests

Sat 19 Oct 3:37:54PM - 17 minutes ago

92 %

23/25 Pass

Authentication (3/4)

Sign Up	Authentication	✓
Sign In	Authentication	✓
Forgot Password	Authentication	✗
Reset Password	Authentication	✓

Load Page (8/8)

Home (Chrome)	Load Page	✓
Home (Edge)	Load Page	✓
Home (Firefox)	Load Page	✓
Home (Safari)	Load Page	✓
Login (Chrome)	Load Page	✓
Login (Edge)	Load Page	✓
Login (Firefox)	Load Page	✓

Viewing tasks

Click 'Tasks' from the menu bar to view tasks for yourself and for the rest of your team.

PROJECT

Tutorials Point

TARGET

Tutorials Point Web Tests

TEAM MEMBER

Conrad Pecker (conrad-pecker-8oct201)

TASKS

Conrad Pecker

Unresolved

Forgot Password

Authentication

Back to results

You can see what tasks are assigned to yourself and to others and tasks can be display by resolved (if you set them to resolved) and unresolved. You can also reassign as task to someone else by clicking on a test case.

8. Results — Notifications

You can setup notifications to be sent by email and with external services such as **Slack**.

Results

Click '**config**' from the menu to open the configuration menu, then click '**Automatic Notifications**'.

The screenshot shows the 'Automatic Notifications' configuration page. At the top, there is a navigation bar with the following items: Results, Tasks, Lists, Runs, Docs, and Config. Below the navigation bar, there are three tabs: 'Configure Project', 'Create New Project', and 'Configure Profile'. The 'Configure Project' tab is selected. The main content area is divided into two columns. The left column is titled 'Automatic notifications:' and contains a toggle switch that is currently turned on. Below the toggle, there is a paragraph of text: 'Everytime new test results are generated, notifications are delivered automatically if this setting is enabled. This includes notifications to team members with email notifications enabled and Slack channel notifications.' Below this paragraph, there is another paragraph: 'You can choose to disable automatic notifications and have project moderators trigger notifications manually instead from the results view.' At the bottom of this column is a green 'Save' button. The right column is titled 'Notifications on changes only:' and contains a toggle switch that is currently turned off. Below the toggle, there is a paragraph of text: 'Everytime new test results are generated, Results delivers notifications if there are changes to previous results only, if this setting is enabled. This includes notifications to team members with email notifications enabled and Slack channel notifications.' Below this paragraph, there is another paragraph: 'You can choose to disable this check and then notifications will be delivered every time new results are generated.' At the bottom of this column is a green 'Save' button. At the bottom left of the page, there is a 'Back' button. At the bottom center of the page, there is a small blue icon and the text '% Results'.

From here, you can choose to enable or disable test results notifications.

You can also choose to send notifications only when test results change or on every test run. If you submit test results with high frequency, such as part of a continuous integration system, it may be better to only send notifications on changes to avoid getting overrun with emails.

Integration with other services is covered in the next section.

Tasks

Results also sends notifications related to task management. If someone assigns you a test case, you receive a notification email about it. You are also notified when a test case assigned to you passes and is removed from your list.

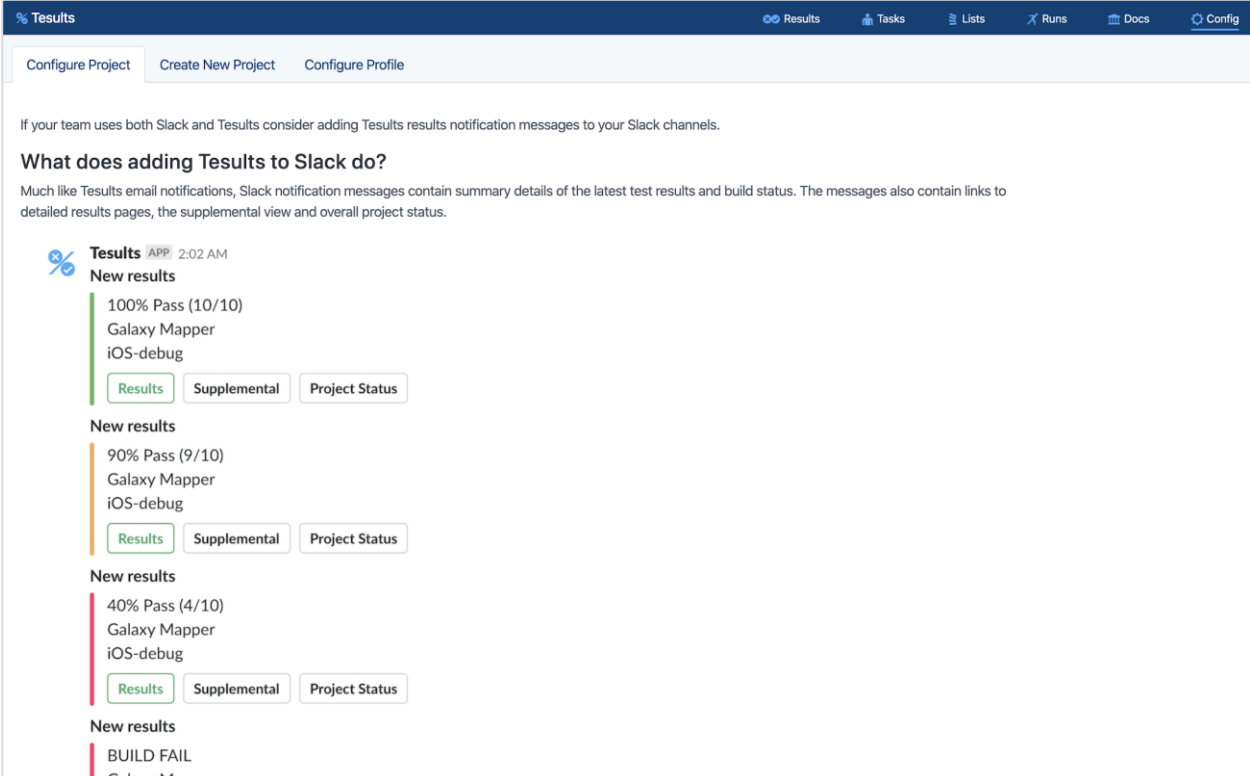
Administrative

When team members are added or removed from a project notification messages are sent out about this.

9. Results — Integrations with Other Services

Results can integrate with Slack to deliver notifications based on test results. The roadmap page also mentions integration with **PagerDuty** coming and there may be others in the future but for this tutorial we focus on the Slack integration specifically.

Click '**config**' from the menu bar to access the configuration menu and then click Slack.



The screenshot shows the 'Results' application interface. At the top, there's a navigation bar with 'Results', 'Tasks', 'Lists', 'Runs', 'Docs', and 'Config'. Below this, there are tabs for 'Configure Project', 'Create New Project', and 'Configure Profile'. The main content area has a heading 'What does adding Results to Slack do?' followed by a paragraph explaining that Slack notifications contain summary details of the latest test results and build status. Below this, there are four example notification cards. Each card starts with 'New results' and a colored bar (green, orange, red, and red respectively). The first card shows '100% Pass (10/10)' for 'Galaxy Mapper' and 'iOS-debug'. The second card shows '90% Pass (9/10)' for 'Galaxy Mapper' and 'iOS-debug'. The third card shows '40% Pass (4/10)' for 'Galaxy Mapper' and 'iOS-debug'. The fourth card shows 'BUILD FAIL' for 'Galaxy Mapper'. Each card has three buttons: 'Results', 'Supplemental', and 'Project Status'.

The first step is to authorize Results to be able to send messages to your Slack channels. To do this, you must be logged in to **Slack** and **Results**. Then click the '**Add**' button as shown below:

Galaxy Mapper
iOS-debug

[Results](#) [Supplemental](#) [Project Status](#)

New results

40% Pass (4/10)
Galaxy Mapper
iOS-debug

[Results](#) [Supplemental](#) [Project Status](#)

New results

BUILD FAIL
Galaxy Mapper
iOS-debug

[Results](#) [Supplemental](#) [Project Status](#)

If your team uses Slack throughout the day you can now be notified of new results within your channel and go directly to detailed Results pages by following the button links in the message.

How do I add Results to Slack?

Create at least one project on Testults. Read the documentation for detailed steps outlining how this is done.

Click the 'Add to Slack' button to authorize Testults to post messages to your Slack channels. You are able to configure which of your Slack channels you want to receive results notifications for.

Testults will post messages only when new results are generated and available.

[Add to Slack](#)

[Back](#)

[% Testults](#)

You are sent to Slack to authorise.

After confirmation you return to Testults and then can choose to enable notifications by '**project scope**' or '**target scope**'.

Project Scope

Project scope allows you to choose which Slack channel or channels should receive your test results notifications. All notifications from any target will be sent to the channels you select.

Target Scope

If you want more fine grain control, select target scope.

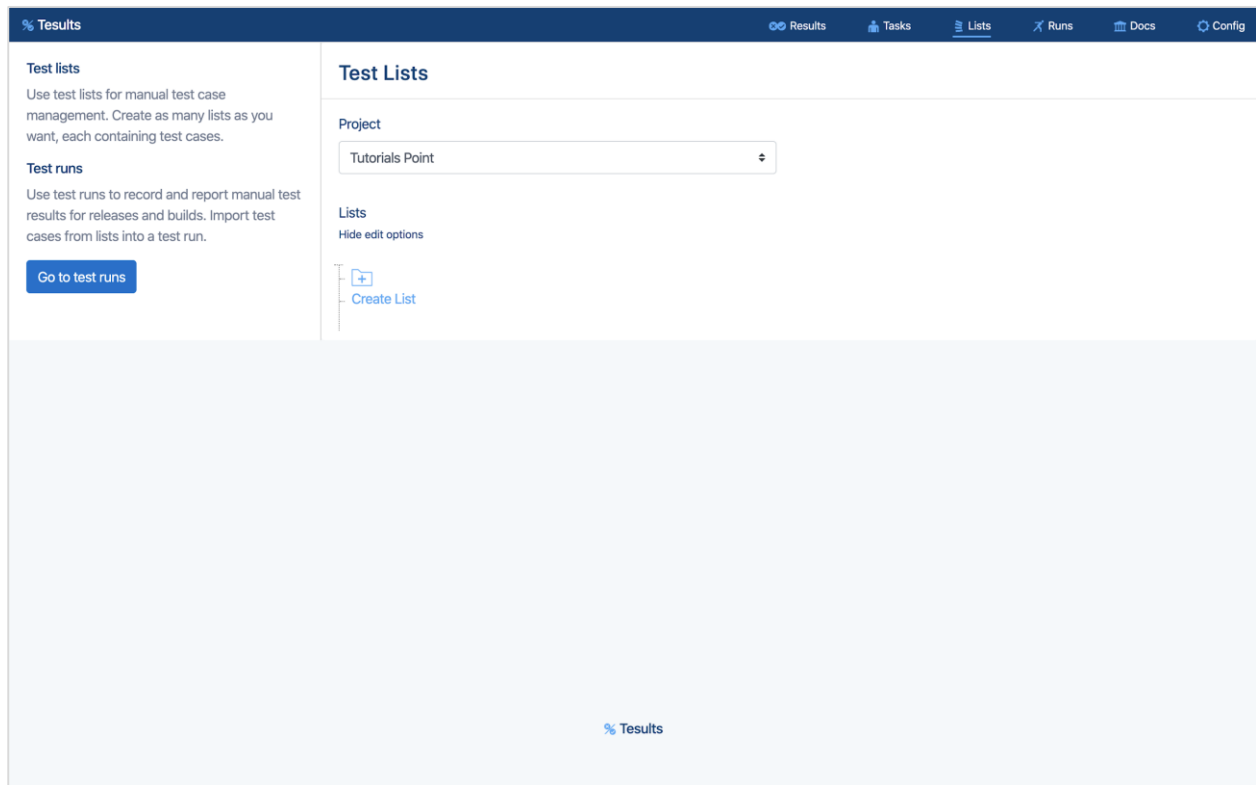
Now, you can choose the target from your Testults project and assign the Slack channel or channels you want to receive notifications for from a specific target. You can do this for every target.

This can be useful if you have Slack channels for different environments or project areas that should get more targeted notifications.

10. Results — Test Case Management with Lists

Test lists are used to manage test cases. Store test cases here are to reuse for each of your manual test runs or even for documenting automated tests.

Click '**lists**' from the menu to enter the Test Lists view.



Creating a test list

Click '**Create List**'. Note that you also create a group to begin, groups allow you to organise your test lists. If you are going to create a lot of test lists create groups.

Results

Tasks

Lists

Runs

Docs

Config

% Results

Name the list and then create it

Create List

Back to lists

Test Lists

Project: Tutorials Point

List name

Tutorials Point Web Tests

% Results

Now, name your test list and confirm. Your list will appear and you can immediately start adding test cases to it.

Results

Tasks

Lists

Runs

Docs

Config

% Results

Back to list tree

Add case to list

Import test cases from target

Import test cases from CSV

Export list to CSV

Edit list name and group

Duplicate selected list

Delete suites from list

Delete currently selected list

Test Lists

Tutorials Point Web Tests

There are no cases for this list.

List link: <https://www.testultra.com/lists/lsp/94e62625-0c61-4217-a039-60027c666d70/1571497615095>

% Results

Adding test cases

Adding test cases include three types which are 'manual', 'import from CSV' and 'import from target'. Let us begin with understanding about Manual.

Manual

Click '**Add case to list**' to add a test case manually.

The screenshot shows the 'Test Results' application interface. On the left is a sidebar with navigation links: 'Back to list tree', 'Add case to list', 'Import test cases from target', 'Import test cases from CSV', 'Export list to CSV', 'Edit list name and group', 'Duplicate selected list', 'Delete suites from list', and 'Delete currently selected list'. The main area is titled 'Test Lists' and contains a form with the following fields and controls:

- Name:** A text input field containing 'Open Home Page'.
- Result:** A dropdown menu currently set to 'Pass'.
- Suite:** A text input field containing 'Navigation'.
- Remove Suite:** A button to delete the current suite.
- New parameter:** A section for adding parameters.
- Desc:** A large text area containing the description 'Open up the home page and make sure it loads correctly.'.
- Remove Description:** A button to delete the current description.
- New custom field:** A section for adding custom fields.

Enter test case details such as:

- Name
- Result
- Description
- Suite
- Parameters
- Custom fields

Click '**Save Case**' and you will see that the case has appeared in the list.

% Results

- Results
- Tasks
- Lists
- Runs
- Docs
- Config

Back to list tree %

Add case to list

Import test cases from target

Import test cases from CSV

Export list to CSV

Edit list name and group

Duplicate selected list

Delete suites from list

Delete currently selected list

Test Lists

Tutorials Point Web Tests

Sort by: Suite | Name | Result

Navigation (1/1)

Open Home Page	Navigation	1
----------------	------------	---

List link: <https://www.testultra.com/lists/lsp/94e62625-0c61-4217-a039-60027c666d70/1571497615095>

Import from CSV

You can also import cases from a csv file.

% Results

- Results
- Tasks
- Lists
- Runs
- Docs
- Config

Importing to list: Tutorials Point Web Tests

Confirm Import

Back to lists

Test Lists

Select a csv file to import test cases from to list: Tutorials Point Web Tests.

The first row must be a header row with the names:

- name
- result
- suite
- desc
- reason
- _Custom

The name and result fields are required, result must be one of: [pass, fail, unknown] and is used to assign a default value to a test case. The suite field is useful for grouping test cases into test suites, desc is a description of the test case, and reason is a failure reason. You can also have any number of custom fields, these fields must start with an underscore. For example: _customField

Example:

```
name,result,suite,desc,reason,_customField1,_customField2
Test 1,pass,Suite A,Test 1 description,,custom1 value,custom2 value
Test 2,fail,Suite A,Test 2 description,failure reason here,custom1 value,custom2 value
Test 3,pass,Suite B,Test 3 description,,custom1 value,custom2 value
```

Choose File No file chosen

You need to ensure your csv file has the data laid out such the first row of the columns is the field names.

Import from Target

A third way to import test cases is from a target (existing test results).

The screenshot shows the 'Test Results' interface. On the left, there's a sidebar with a dropdown menu set to 'Tutorials Point Web Tests', an 'Import' button, and a 'Back to lists' button. The main area is titled 'Test Lists' and shows a breadcrumb path: 'Tutorials Point Web Tests cases > Import > Tutorials Point Web Tests'. Below this, there are three sections of test cases:

- Authentication (3/4)**: Contains four test cases. 'Sign Up', 'Sign In', and 'Reset Password' have green checkmark icons. 'Forgot Password' is highlighted in red and has a red X icon.
- Load Page (8/8)**: Contains eight test cases, all with green checkmark icons.
- Navigation (9/10)**: The first part of this section is visible at the bottom.

Select the target you want to import test cases from.

Updating test cases

Once your test list has been created and test cases added, you can edit or update test cases by clicking on a specific test case.

TestResults

Back to list tree
Add case to list
Import test cases from target
Import test cases from CSV
Export list to CSV
Edit list name and group
Duplicate selected list
Delete suites from list
Delete currently selected list

Forgot Password
Project: Tutorials Point

Result	Fail ✖
Suite	Authentication
Description	Forgot password
Failure Reason	Failed to send forgot password email.
Comments	No comments. Add new comment

[Duplicate](#) [Delete](#) [Edit](#) [Close](#)

Test Case	Result
Home (Firefox)	Load Page
Home (Safari)	Load Page
Login (Chrome)	Load Page
Login (Edge)	Load Page
Login (Firefox)	Load Page
Login (Safari)	Load Page

Navigation (10/11)

Click '**Edit**' from the footer of the test case.

TestResults

Back to list tree
Add case to list
Import test cases from target
Import test cases from CSV
Export list to CSV
Edit list name and group
Duplicate selected list
Delete suites from list
Delete currently selected list

Test Lists

Name
Forgot Password

Result
Pass

Suite
Authentication
[Remove Suite](#)

New parameter

Desc
Forgot password
[Remove Description](#)

New custom field

You can change any field; in this case we change the result from fail to pass.

The screenshot displays the 'Results' tab in a testing tool. A modal window titled 'Forgot Password' is open, showing details for a test case in the 'Project: Tutorials Point'. The modal contains the following information:

- Result:** Pass (indicated by a green checkmark)
- Suite:** Authentication
- Description:** Forgot password
- Comments:** No comments. (with an 'Add new comment' link)

At the bottom of the modal are buttons for 'Duplicate', 'Delete', 'Edit', and 'Close'. In the background, a table of test results is visible, showing various test cases like 'Home (Chrome)', 'Login (Chrome)', etc., all with a 'Load Page' action and a 'Pass' status (green checkmark). The interface includes a sidebar with navigation options and a top navigation bar with tabs for Results, Tasks, Lists, Runs, Docs, and Config.

Deleting test cases

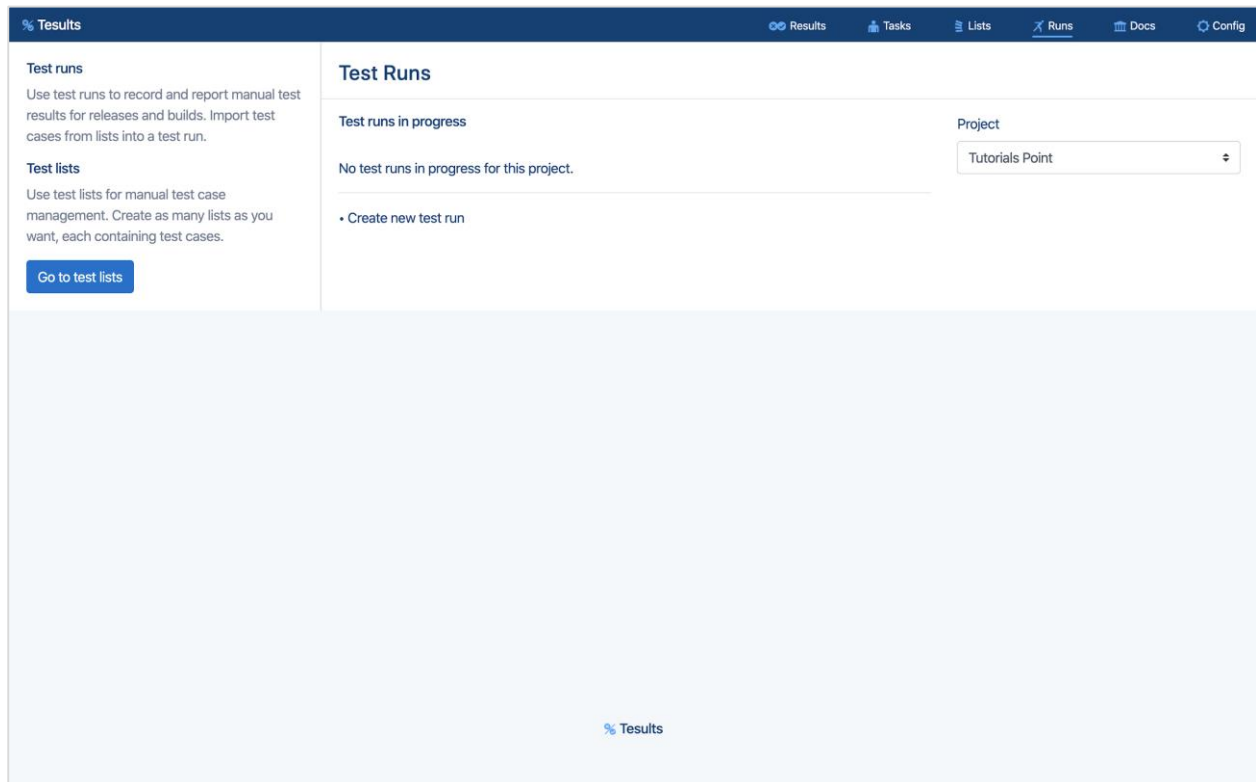
In the same way, you can delete a test case by clicking '**Delete**' from the footer of a selected test case.

Use with Test Runs

You can use test lists with manual test runs, how to do this is explained in the next section.

11. Results — Test Runs for Manual Testing

Test runs are used to conduct manual testing. Click '**runs**' from the menu to access test runs.



Create a test run

First thing to do is create a test run. Click '**Create new test run**' and then enter a name for your test run and confirm to create.

The name here is a temporary name. By default, Results sets it to the current date and time. The name is used to come back to a test run later on or share a test run with other team members to work on at the same time.

Results

Tasks

Lists

Runs

Docs

Config

Confirm

Back to test runs

Test Runs

Project: Tutorials Point

Test run label while in progress. Keep this as is or change it to something more memorable like a release version. In progress runs are saved for 30 days. This means you can get started, leave and pick up where you left off for up to 30 days before needing to submit.

Tutorials Point New Test Run for Web

After confirming the new test run is created and it will be empty.

Results

Tasks

Lists

Runs

Docs

Config

Show cases assigned to team member:

All

Back to test runs

Add new case

Import Cases

Delete run

Change test run label

Test Runs

Tutorials Point New Test Run for Web

Add cases to this test run from the side menu manually or by importing from a test list.

Adding test cases

To add a test case manually click add new case. Now, you can add test case details including: -

- Name
- Result
- Suite
- Parameters
- Description
- Files (upload test case related files)
- Custom Fields

Save the case and you will see that it is added to the test run.

Importing test cases from a List

You can also add test cases from a test list (see previous section for creating test lists). This is the most efficient way to add test cases because for each new test run you can use your existing test cases.

Click Import Cases and then select a test list from the dropdown list and click Import.

To edit a test case, click it to open up test case details.

Click '**edit**' from the footer.

The screenshot shows the 'Results' tab in the application. A modal window titled 'Sign Up' is open, showing details for a test case named 'Sign Up' with a 'Pass' result. The modal includes fields for Suite ('Authentication'), Description ('Sign up for the first time'), and Comments. Below the modal, a table lists test runs. The table has columns for Name, Suite, and Result. The first row is 'Load Page' (8/8) with a 'Pass' result. Subsequent rows show 'Home' and 'Login' tests for various browsers (Chrome, Edge, Firefox, Safari), all with 'Pass' results.

Name	Suite	Result
Load Page (8/8)		Pass
Home (Chrome)	Load Page	Pass
Home (Edge)	Load Page	Pass
Home (Firefox)	Load Page	Pass
Home (Safari)	Load Page	Pass
Login (Chrome)	Load Page	Pass
Login (Edge)	Load Page	Pass
Login (Firefox)	Load Page	Pass
Login (Safari)	Load Page	Pass

The screenshot shows the 'Test Runs' form. It includes a 'Cancel' button at the top left. The form fields are: Name (Sign Up), Result (Pass), Suite (Authentication), and Description (Sign up for the first time). There are buttons for 'Remove Suite', 'Remove Description', and 'Add File'.

Deleting test cases

You can delete a test case in the same way. Select it and click 'delete' from the footer.

Assigning test cases to team members

By default, test cases are unassigned and all test cases are shown from the list. Change test cases shown to a specific team member by changing the dropdown list from 'All' to a team member's name.

Once a team member is selected, including yourself, you can assign test cases to specific people. A new '**Assign**' button appears. Click it and the test run will change to display all test cases with indicators showing whether the test case is assigned to the currently selected person, or is unassigned or is assigned to someone else.

The screenshot shows the 'Test Results' interface. On the left, a sidebar indicates the test assignment for 'Conrad Pecker' with a 'Done' button. The main area is titled 'Test Runs' and shows a 'Tutorials Point New Test Run for Web'. Below this, instructions state: 'Select a test case to assign it to Conrad Pecker. Click Done to finish assigning and then Save to save changes.' Three color-coded boxes explain the status: grey for unassigned, orange for assigned to someone else, and blue for assigned to Conrad Pecker. A progress bar for 'Authentication' (4/4) is shown, with an 'Assign Suite' button and a count of 4. Below the progress bar, a table lists test cases for 'Authentication' and 'Load Page', each with a green checkmark indicating assignment to Conrad Pecker.

Test Case	Category	Status
Sign Up	Authentication	Assigned to Conrad Pecker
Sign In	Authentication	Assigned to Conrad Pecker
Forgot Password	Authentication	Assigned to Conrad Pecker
Reset Password	Authentication	Assigned to Conrad Pecker
Home (Chrome)	Load Page	Assigned to Conrad Pecker
Home (Edge)	Load Page	Assigned to Conrad Pecker
Home (Firefox)	Load Page	Assigned to Conrad Pecker
Home (Safari)	Load Page	Assigned to Conrad Pecker
Login (Chrome)	Load Page	Assigned to Conrad Pecker
Login (Edge)	Load Page	Assigned to Conrad Pecker

Now, you can click a test case to assign it to the currently selected team member, and click again to unassign. Click '**Done**' once you are finished.

% Testults Results Tasks Lists **Runs** Docs Config

Test assignment for:
Conrad Pecker

Done

Test Runs

Tutorials Point New Test Run for Web

Select a test case to assign it to **Conrad Pecker**. Click Done to finish assigning and then Save to save changes.

- Test cases with this color indicate they have not been assigned to anyone.
- Test cases with this color indicate they have been assigned to someone else. Selecting will reassign them to **Conrad Pecker**.
- Test cases with this color indicate they are assigned to **Conrad Pecker**.

Conrad Pecker: 3
Unassigned: 23

Authentication (4/4) Assign Suite 26 4

Test Case	Suite	Status
Sign Up	Authentication	✓
Sign In	Authentication	✓
Forgot Password	Authentication	✓
Reset Password	Authentication	✓

Load Page (8/8) Assign Suite 8

Test Case	Suite	Status
Home (Chrome)	Load Page	✓
Home (Edge)	Load Page	✓
Home (Firefox)	Load Page	✓
Home (Safari)	Load Page	✓
Login (Chrome)	Load Page	✓

Having 'All' selected will continue to display all test cases, and selecting a team member will display what test cases are assigned to that individual.

% Testults Results Tasks Lists **Runs** Docs Config

Show cases assigned to team member:
Conrad Pecker

Assign

Back to test runs
Add new case
Import Cases
Mark All Done
Mark All Not Done
Delete run
Change test run label

Submit results

Mark all test cases as done to enable submit

Test Runs

Tutorials Point New Test Run for Web

Sort by: Suite | Name | Result

Select a test case to edit details. Mark cases as done to submit results.

Conrad Pecker: 3
Unassigned: 23
0% complete (0 / 3)

Authentication (3/3) Assign Suite 3 3

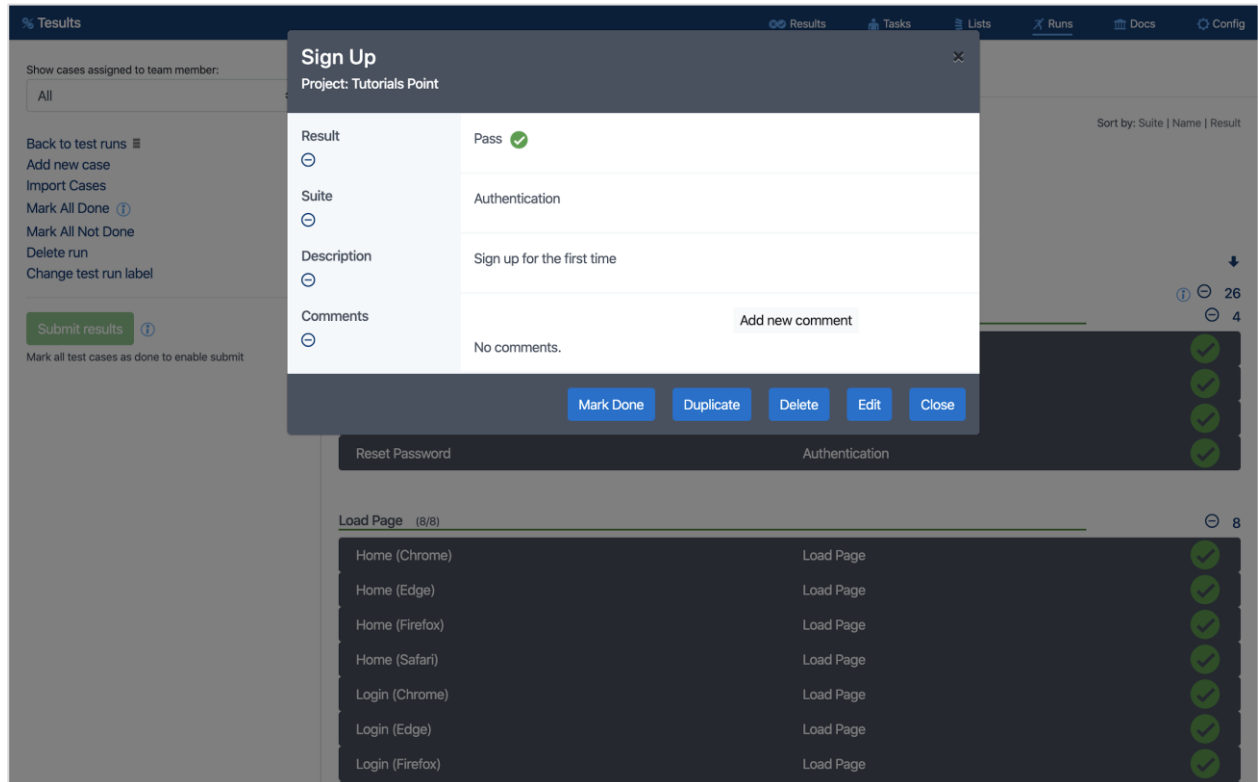
Test Case	Suite	Status
Sign Up	Authentication	✓
Sign In	Authentication	✓
Forgot Password	Authentication	✓

Run link: <https://www.testults.com/manual/msp/94e62625-0c61-4217-a039-60027c666d70/1571498839985>

% Testults

Marking test cases as done

By default, all test cases in the test run are marked as incomplete. This means that they need to be worked on. To indicate that test case has been completed, select the test case and from the footer click '**Mark Done**'.



At the top of the test, run the percentage of completed test cases is displayed along with the number that are assigned to team members.

The screenshot shows the 'Test Results' page in a web application. The top navigation bar includes 'Results', 'Tasks', 'Lists', 'Runs', 'Docs', and 'Config'. The left sidebar contains a filter for 'Show cases assigned to team member:' set to 'All', and a list of actions: 'Back to test runs', 'Add new case', 'Import Cases', 'Mark All Done', 'Mark All Not Done', 'Delete run', and 'Change test run label'. A 'Submit results' button is also present.

The main content area is titled 'Test Runs' and shows a progress bar for 'Tutorials Point New Test Run for Web'. Below the progress bar, there is a table of test cases. The first section is 'Authentication' (4/4) with a progress bar at 100%. The second section is 'Load Page' (8/8) with a progress bar at 100%.

Test Case Name	Category	Status
Sign Up	Authentication	✓
Sign In	Authentication	✓
Forgot Password	Authentication	✓
Reset Password	Authentication	✓
Home (Chrome)	Load Page	✓
Home (Edge)	Load Page	✓
Home (Firefox)	Load Page	✓
Home (Safari)	Load Page	✓
Login (Chrome)	Load Page	✓
Login (Edge)	Load Page	✓
Login (Firefox)	Load Page	✓

Marking test cases as done makes it easy to keep track of which test cases have been looked at and understand the progress of the run.

Submitting manual results

After all test cases in the run have been marked as complete, the '**Submit Test Run**' button is enabled and you can click it to submit results to one of your project targets.

% Results Results Tasks Lists **Runs** Docs Config

Show cases assigned to team member:
All

Back to test runs
Add new case
Import Cases
Mark All Done
Mark All Not Done
Delete run
Change test run label

Submit Test Run

Test Runs

Tutorials Point New Test Run for Web

Select a test case to edit details. Mark cases as done to submit results.

Conrad Pecker: 3
Unassigned: 23
100% complete (26 / 26)

Sort by: Suite | Name | Result

Authentication (4/4) 26 4

Sign Up	Authentication	✓
Sign In	Authentication	✓
Forgot Password	Authentication	✓
Reset Password	Authentication	✓

Load Page (8/8) 8

Home (Chrome)	Load Page	✓
Home (Edge)	Load Page	✓
Home (Firefox)	Load Page	✓
Home (Safari)	Load Page	✓
Login (Chrome)	Load Page	✓
Login (Edge)	Load Page	✓
Login (Firefox)	Load Page	✓

Choose the appropriate target from the dropdown list and click 'Submit Results'.

% Results Results Tasks Lists **Runs** Docs Config

Ensure your results are ready to be submitted before clicking submit, in progress results will be cleared after successful submission.

Submit results

Back

Test Runs

Target

Select a target to upload results to.

Tutorials Point Web Tests

% Results

Since automated test runs may be by submitting results to particular targets, you may want to create separate targets for manual test runs, otherwise, historical data and comparisons will break and cause confusion.

It may be better in some cases not to submit results if the test run is for internal use with a test team and not for wider use. Simply view the test run within the team and then create a new test run to start a new one.

If you have created targets specifically for manual test runs, then submitting results is a good idea. After submitting you can click '**results**' from the menu bar to view results.