

Testing with Postman

Capstone 3: E-Commerce API

Testing the API

Import Postman Collections

There are 2 different Postman test collections.

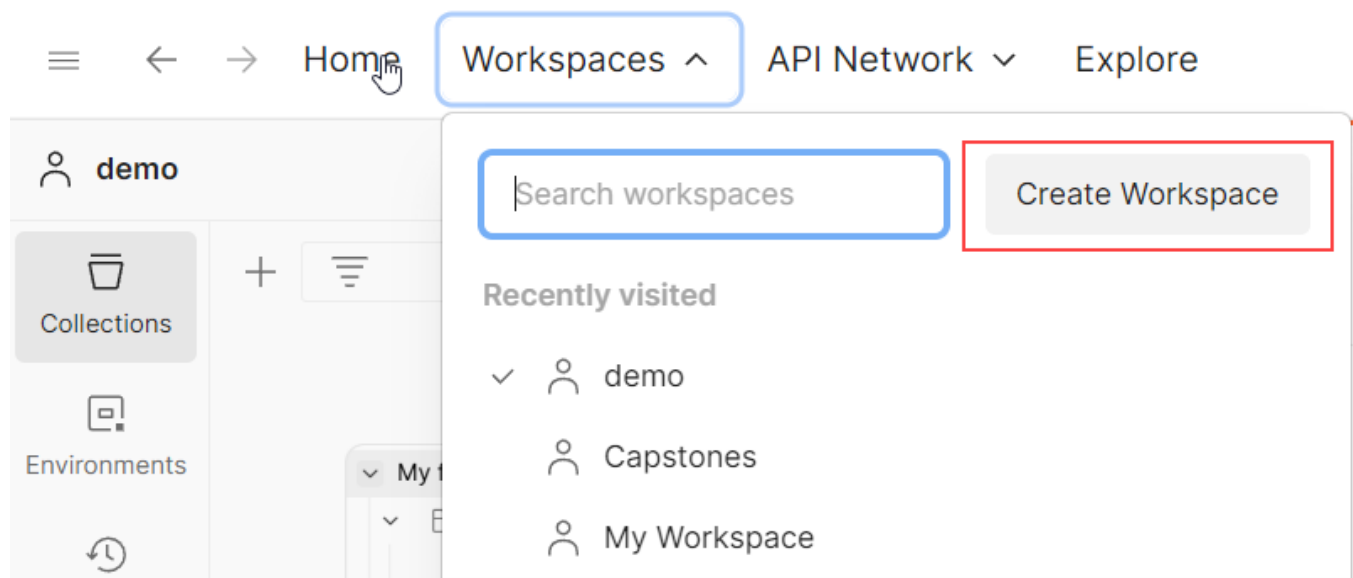
`easyshop.postman_collection.json`
`easyshop-optional.postman_collection.json`

As the names indicate, the first is the collection of Postman REST requests for the required features in the capstone.

The second collection is a set of methods and tests for optional features and functionality in the capstone.

Create a Workspace

Open Postman. Select the **Workspaces** menu item and create a new workspace for your capstone.



Create workspace

Name

Capstone

Summary

Add a brief summary about this workspace.

Visibility

Determines who can access this workspace.

☐ Personal

Only you can access

☐ Private

Only invited team members can access

☒ Team

All team members can access

☐ Partner NEW

Only invited partners and team members can access

☐ Public

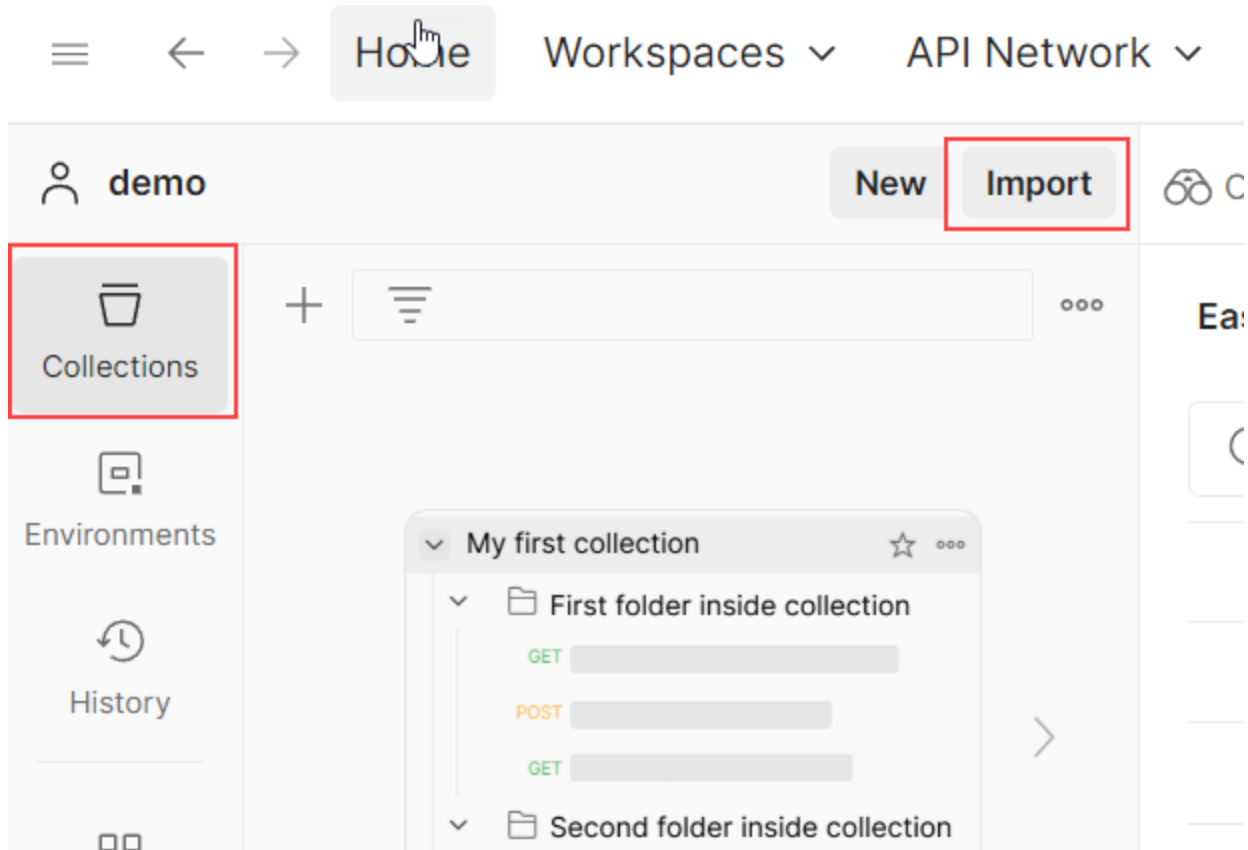
Everyone can view

Create Workspace

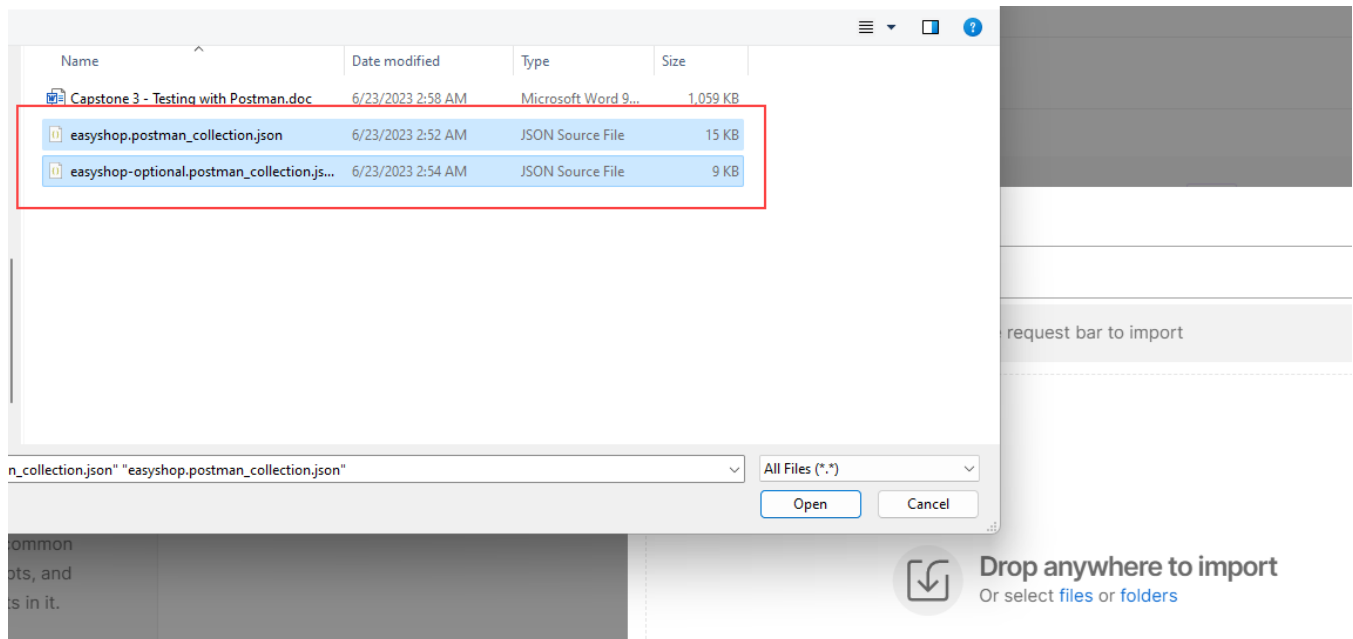
Cancel

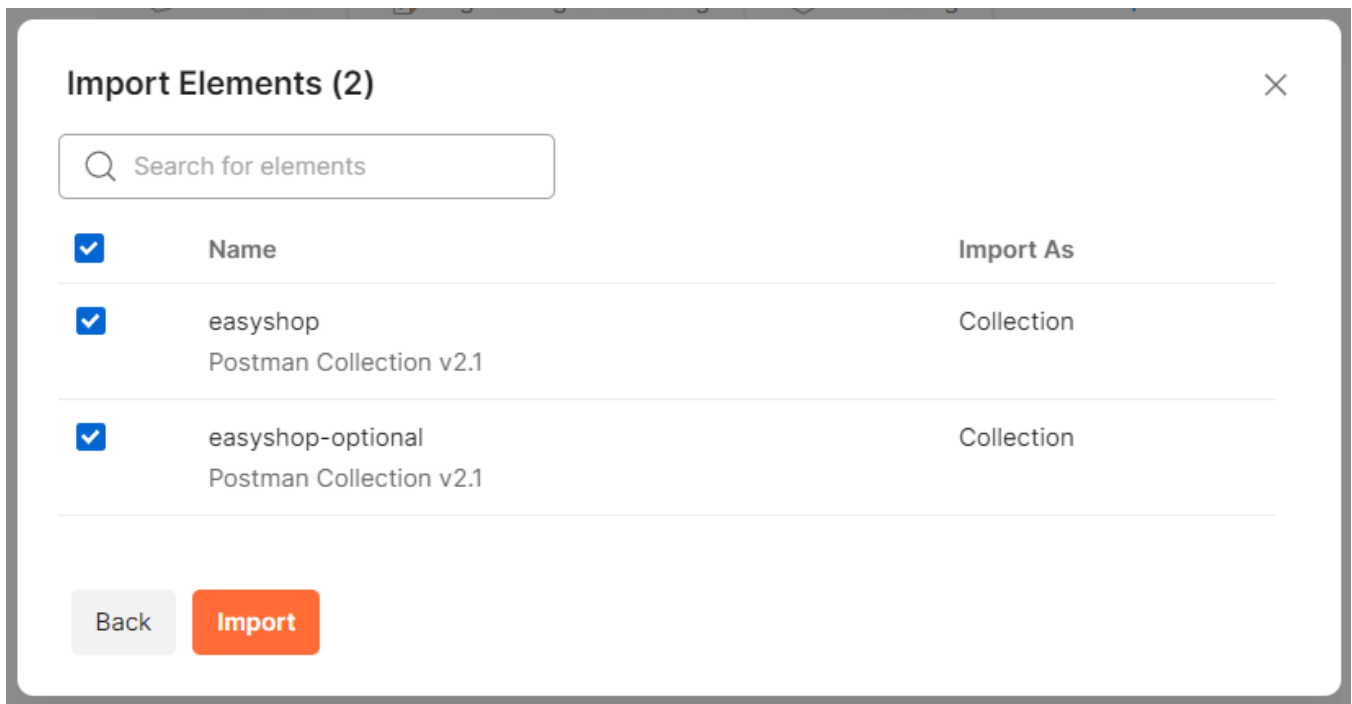
Import the Collections

After creating the workspace, Postman will open the new workspace in the Collections page. Click Import to launch the import wizard.

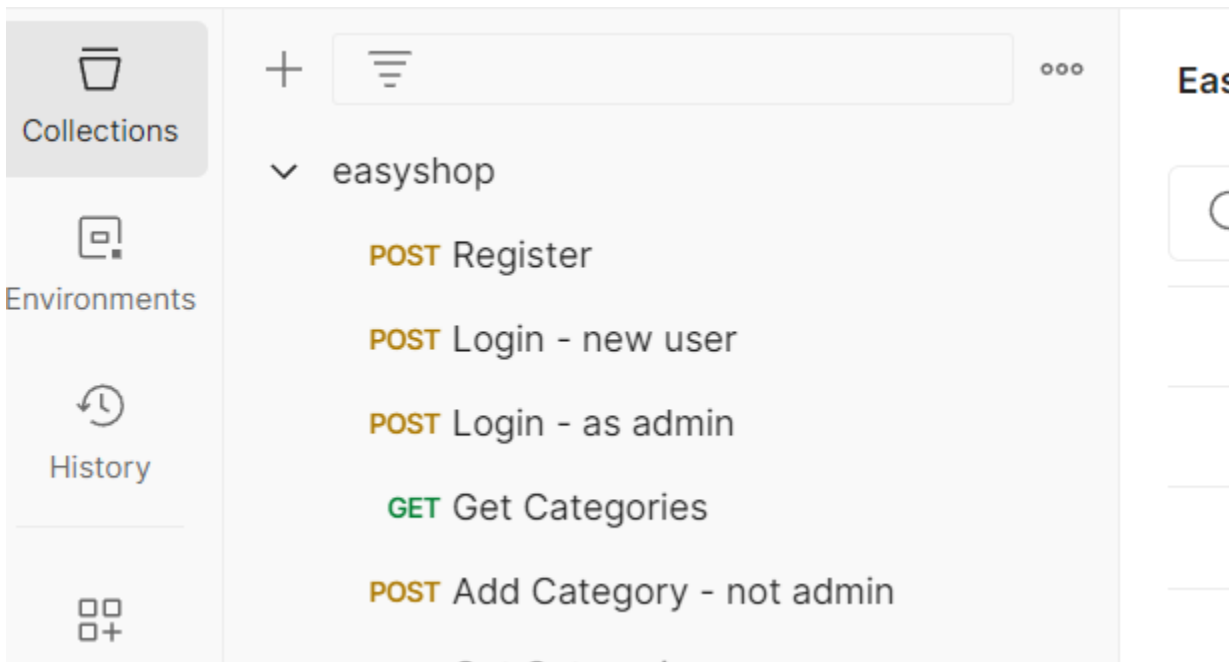


Navigate to the folder with the postman json files and import both files.

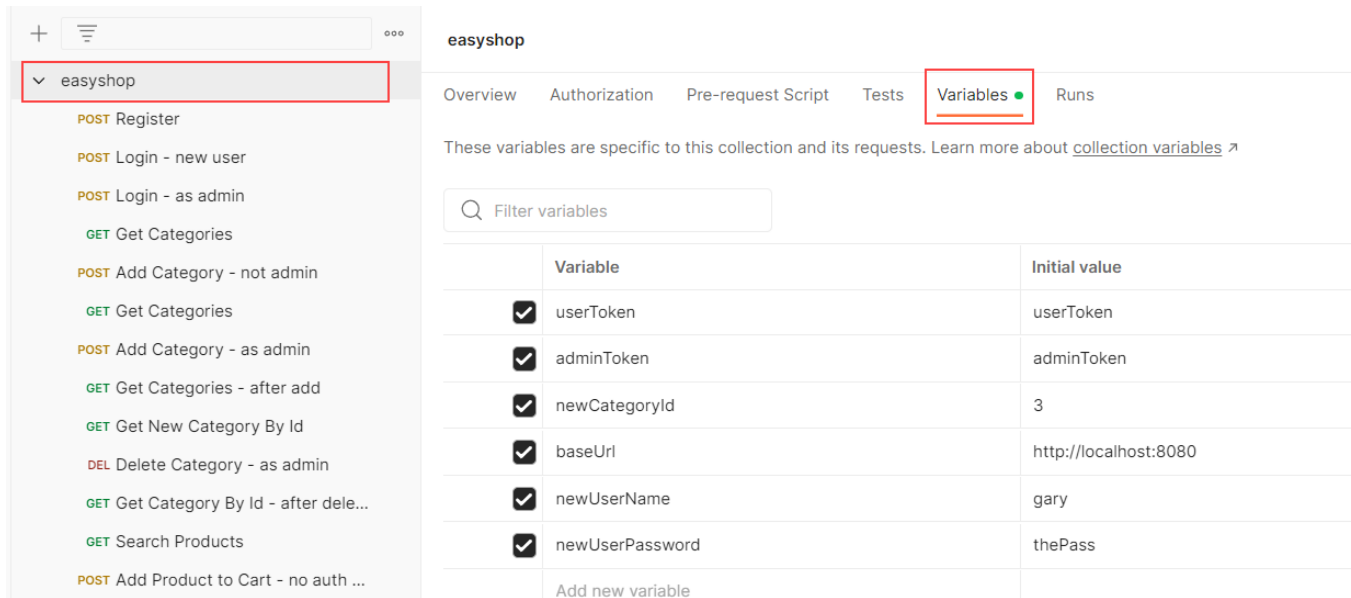




This will import the collections and the REST requests.



Collections allow us to create variables and use them to automate the testing process. Select the **easyshop** collection and click **Variables** to see the variables for this collection.

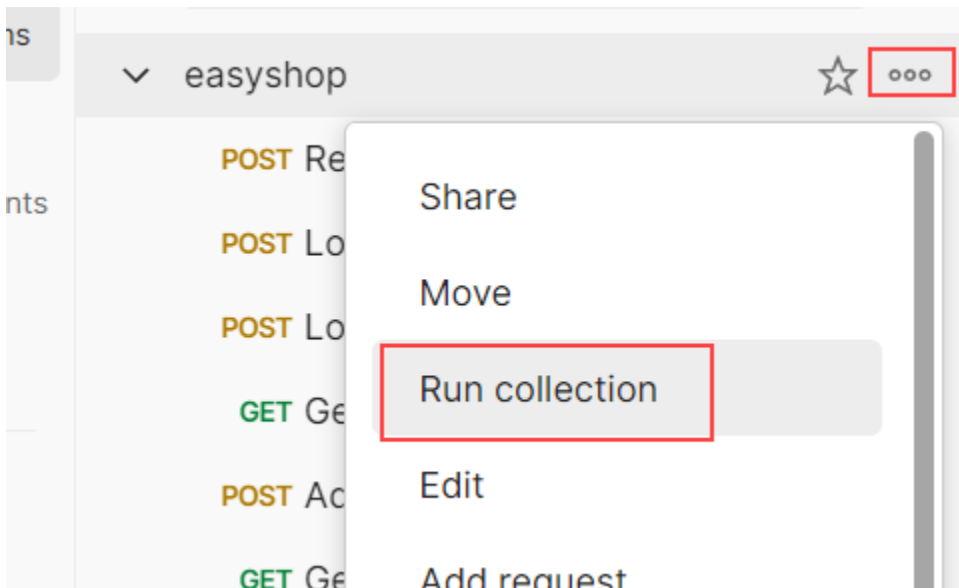


The screenshot shows the Postman interface. On the left, the 'easyshop' collection is selected. On the right, the 'Variables' tab is active, displaying a table of variables specific to this collection.

	Variable	Initial value
<input checked="" type="checkbox"/>	userToken	userToken
<input checked="" type="checkbox"/>	adminToken	adminToken
<input checked="" type="checkbox"/>	newCategoryId	3
<input checked="" type="checkbox"/>	baseUrl	http://localhost:8080
<input checked="" type="checkbox"/>	newUserName	gary
<input checked="" type="checkbox"/>	newUserPassword	thePass
	Add new variable	

Running the Tests

In the **easyshop** collection, click the ellipsis button on the right and choose **Run Collection** to open the test suite.



The screenshot shows the Postman interface. The 'easyshop' collection is selected in the left sidebar. The ellipsis button (three dots) is highlighted with a red box. A context menu is open, showing the 'Run collection' option highlighted with a red box.

In the test suite you can choose which tests you want to run. By default all tests are selected.

The screenshot shows the Postman interface for a collection named 'easysshop'. On the left, a list of tests is shown with their HTTP methods and endpoints. In the center, a 'Run order' section lists all tests with checkboxes, all of which are checked. On the right, the 'Functional' tab is active, showing options to 'Choose how to run your collection' (Run manually, Schedule runs, or Automate runs via CLI). Below this, the 'Run configuration' section shows 'Iterations' set to 1 and 'Delay' set to 0 ms. A 'Run easysshop' button is highlighted with a red box.

Before you run the tests ensure that your capstone API projects is running in IntelliJ. Postman will run through all of the tests, and like Unit Tests, will indicate if the tests succeed or fail.

The screenshot shows the 'Run results' for the 'easysshop' collection. It indicates that the run was successful at 02:55:41. A table summarizes the run details:

Source	Environment	Iterations	Duration	All tests	Avg. Resp. Time
Runner	none	1	2s 291ms	17	25 ms

Below the table, it shows 'All Tests' with 'Passed (17)', 'Failed (0)', and 'Skipped (0)'. The 'Iteration 1' section is expanded, showing the following tests and their results:

- POST Register**
http://localhost:8080/register
PASS Registration should succeed
- POST Login - new user**
http://localhost:8080/login
PASS User Login should create token
- POST Login - as admin**
http://localhost:8080/login
PASS Admin Login should succeed
- GET Get Categories**
http://localhost:8080/categories
PASS Categories should be 3