

## TEST CASES

### Business API Tests

# Postman API Testing Guide

## Environment Setup

First, create a new environment in Postman with these variables:

- `base_url`: <http://localhost:5000>
- `token`: (leave empty initially, will be filled after login)

### JSON Data:

### Test:

#### 1. User Registration Test

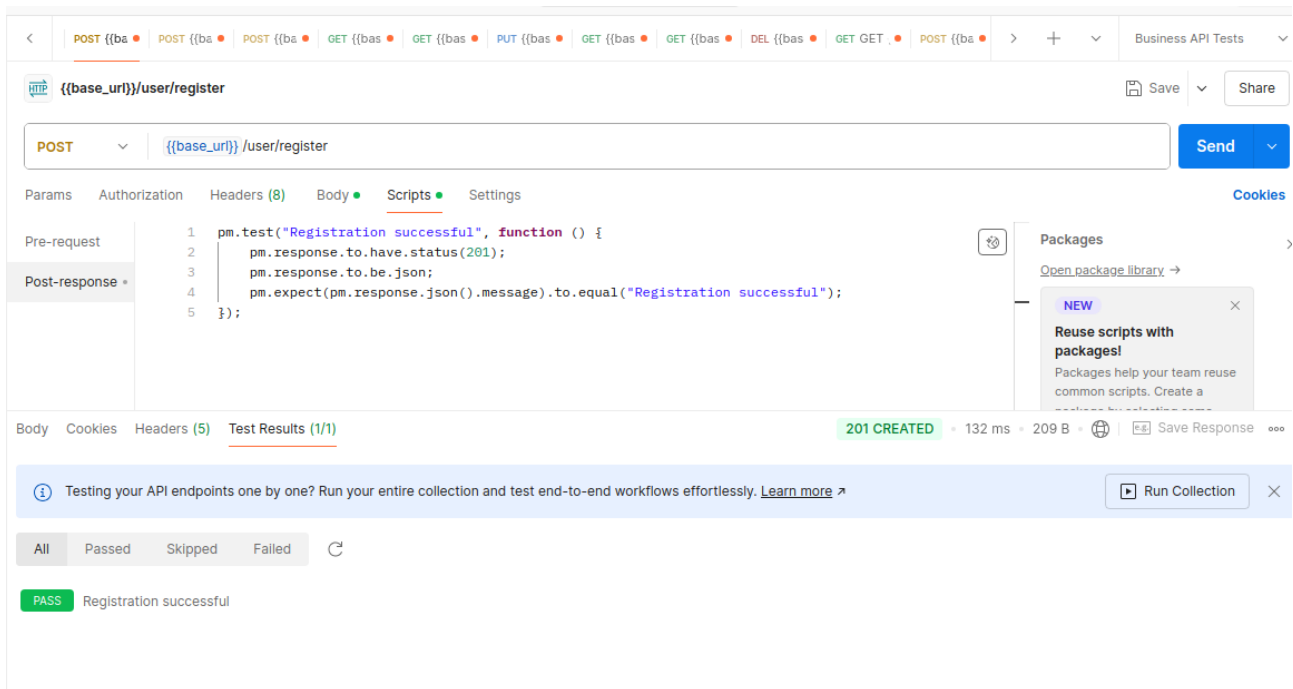
POST `{{base_url}}/user/register`

Content-Type: application/json

```
{  
  "username": "testuser",  
  "password": "test123"  
}
```

// Test Scripts

```
pm.test("Registration successful", function () {  
  pm.response.to.have.status(201);  
  pm.response.to.be.json;  
  pm.expect(pm.response.json().message).to.equal("Registration successful");  
});
```



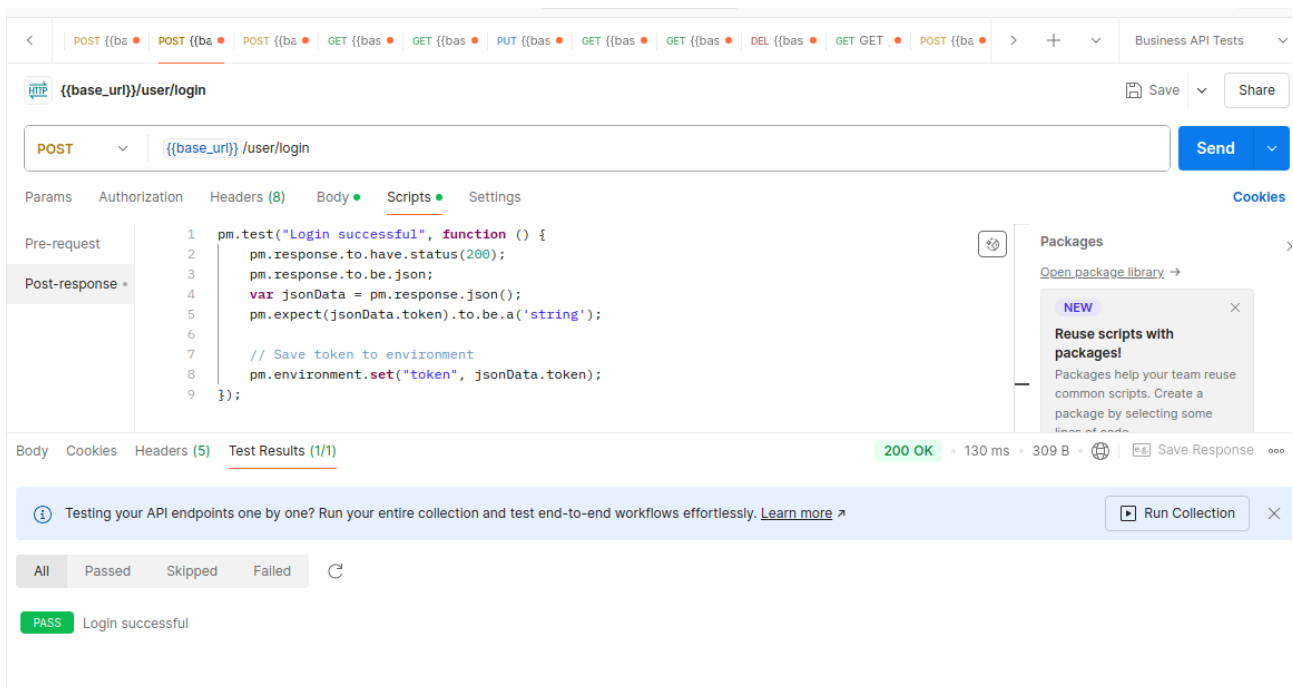
## 2. User Login Test

POST {{base\_url}}/user/login  
Content-Type: application/json

```
{  
  "username": "testuser",  
  "password": "test123"  
}
```

// Test Scripts

```
pm.test("Login successful", function () {  
  pm.response.to.have.status(200);  
  pm.response.to.be.json;  
  var jsonData = pm.response.json();  
  pm.expect(jsonData.token).to.be.a('string');  
  
  // Save token to environment  
  pm.environment.set("token", jsonData.token);  
});
```



### 3. Add Business Test

POST `{{base_url}}/businesses`  
Authorization: Bearer `{{token}}`  
Content-Type: application/json

```
{
  "name": "Test Business",
  "address": "123 Test Street",
  "type": "Retail"
}
```

// Test Scripts

```
pm.test("Business added successfully", function () {
  pm.response.to.have.status(201);
  pm.response.to.be.json;
  pm.expect(pm.response.json().message).to.equal("Business added");
});
```

// Save business ID for later tests

```
if (pm.response.status === 201) {
  pm.environment.set("business_id", pm.response.json()._id);
}
```

Business API Tests

POST {{base\_url}}/businesses

Send

Params Authorization Headers (9) Body Scripts Settings Cookies

Pre-request

Post-response \*

```

1 pm.test("Business added successfully", function () {
2   pm.response.to.have.status(201);
3   pm.response.to.be.json;
4   pm.expect(pm.response.json().message).to.equal("Business added");
5 });
6
7 // Save business ID for later tests
8 if (pm.response.status === 201) {
9   pm.environment.set("business_id", pm.response.json()._id);
10 }

```

Packages

Open package library →

**NEW**

**Reuse scripts with packages!**

Packages help your team reuse common scripts. Create a package by selecting some lines of code.

[Learn more.](#)

Body Cookies Headers (5) Test Results (1/1)

201 CREATED • 50 ms • 200 B • Save Response

Pretty Raw Preview Visualize JSON

```

1 {
2   "message": "Business added"
3 }

```

## 4. Get All Businesses Test

GET {{base\_url}}/businesses

Authorization: Bearer {{token}}

// Test Scripts

```

pm.test("Get businesses successful", function () {
  pm.response.to.have.status(200);
  pm.response.to.be.json;
  pm.expect(pm.response.json()).to.be.an('array');
});

```

Business API Tests

GET {{base\_url}}/businesses

Send

Params Authorization Headers (7) Body Scripts Settings Cookies

Pre-request

Post-response \*

```

1 pm.test("Get businesses successful", function () {
2   pm.response.to.have.status(200);
3   pm.response.to.be.json;
4   pm.expect(pm.response.json()).to.be.an('array');
5 });

```

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Body Cookies Headers (5) Test Results (1/1)

200 OK • 7 ms • 316 B • Save Response

Testing your API endpoints one by one? Run your entire collection and test end-to-end workflows effortlessly. [Learn more](#)

Run Collection

All Passed Skipped Failed

**PASS** Get businesses successful

## 5. Get Single Business Test

GET {{base\_url}}/businesses/{{business\_id}}

Authorization: Bearer {{token}}

// Test Scripts

```
pm.test("Get single business successful", function () {  
  pm.response.to.have.status(200);  
  pm.response.to.be.json;  
  pm.expect(pm.response.json()).to.have.property('name');  
  pm.expect(pm.response.json()).to.have.property('address');  
  pm.expect(pm.response.json()).to.have.property('type');  
});
```

The screenshot displays the Postman interface for a GET request. The URL is {{base\_url}}/businesses/{{business\_id}}. The Scripts tab is selected, showing the following test script:

```
1 pm.test("Get single business successful", function () {  
2   pm.response.to.have.status(200);  
3   pm.response.to.be.json;  
4   pm.expect(pm.response.json()).to.have.property('name');  
5   pm.expect(pm.response.json()).to.have.property('address');  
6   pm.expect(pm.response.json()).to.have.property('type');  
7 });
```

The Test Results tab shows a successful response (200 OK) with a status of PASS. The response body is empty. A notification banner at the bottom states: "Testing your API endpoints one by one? Run your entire collection and test end-to-end workflows effortlessly. [Learn more](#)".

## 6. Update Business Test

PUT {{base\_url}}/businesses/{{business\_id}}

Authorization: Bearer {{token}}

Content-Type: application/json

```
{  
  "name": "Updated Test Business",
```

```
"address": "456 Test Avenue",  
"type": "Retail"  
}
```

// Test Scripts

```
pm.test("Update business successful", function () {  
  pm.response.to.have.status(200);  
  pm.response.to.be.json;  
  pm.expect(pm.response.json().message).to.equal("Business updated");  
});
```

The screenshot shows the Postman interface for a PUT request. The URL is `{{base_url}}/businesses/{{business_id}}`. The request body is empty. The 'Scripts' tab is active, showing a test script that checks the status is 200, the response is JSON, and the message is 'Business updated'. The 'Test Results' tab shows a 'PASS' status for the test 'Update business successful'. A 'Packages' sidebar is visible on the right, suggesting to reuse scripts with packages.

## 7. Search Businesses Test

GET `{{base_url}}/businesses/search?type=Retail&location=Test`  
Authorization: Bearer `{{token}}`

// Test Scripts

```
pm.test("Search businesses successful", function () {  
  pm.response.to.have.status(200);  
  pm.response.to.be.json;  
  pm.expect(pm.response.json()).to.be.an('array');  
});
```

The screenshot shows the Postman interface for a REST client. The top bar displays a list of requests, with the current one being a GET request to `{{base_url}}/businesses/search?type=Retail&location=Test`. The interface is divided into several tabs: Params, Authorization, Headers (7), Body, Scripts, and Settings. The Scripts tab is currently selected, showing a test script with the following code:

```
1 // Test Scripts
2 pm.test("Search businesses successful", function () {
3     pm.response.to.have.status(200);
4     pm.response.to.be.json;
5     pm.expect(pm.response.json()).to.be.an('array');
6 });
```

Below the script, the response status is shown as **200 OK** with a response time of 6 ms and a body size of 324 B. A notification on the right side of the interface reads: "NEW Reuse scripts with packages! Packages help your team reuse common scripts. Create a package by selecting some lines of code." At the bottom, the Test Results section shows a single test that passed: "PASS Search businesses successful".

## 8. Aggregate Businesses Test

GET `{{base_url}}/businesses/aggregate`  
Authorization: Bearer `{{token}}`

```
// Test Scripts
pm.test("Aggregate businesses successful", function () {
    pm.response.to.have.status(200);
    pm.response.to.be.json;
    pm.expect(pm.response.json()).to.be.an('array');
    if (pm.response.json().length > 0) {
        pm.expect(pm.response.json()[0]).to.have.property('count');
        pm.expect(pm.response.json()[0]).to.have.property('businesses');
    }
});
```

The screenshot shows a Postman interface for a GET request to `{{base_url}}/businesses/aggregate`. The test script in the Scripts tab is as follows:

```
1 pm.test("Aggregate businesses successful", function () {
2   pm.response.to.have.status(200);
3   pm.response.to.be.json;
4   pm.expect(pm.response.json()).to.be.an('array');
5   if (pm.response.json().length > 0) {
6     pm.expect(pm.response.json()[0]).to.have.anyty('count');
7     pm.expect(pm.response.json()[0]).to.have.property('businesses');
8   }
9 });
```

The test results show a **PASS** for "Aggregate businesses successful". The response status is **200 OK** with a response time of 10 ms and a body size of 272 B.

## 9. Delete Business Test

DELETE `{{base_url}}/businesses/{{business_id}}`

Authorization: Bearer `{{token}}`

// Test Scripts

```
pm.test("Delete business successful", function () {
  pm.response.to.have.status(200);
  pm.response.to.be.json;
  pm.expect(pm.response.json().message).to.equal("Business deleted");
});
```

The screenshot shows a Postman interface for a DELETE request to `{{base_url}}/businesses/{{business_id}}`. The test script in the Scripts tab is as follows:

```
1 pm.test("Delete business successful", function () {
2   pm.response.to.have.status(200);
3   pm.response.to.be.json;
4   pm.expect(pm.response.json().message).to.equal("Business deleted");
5 });
```

The test results show a **PASS** for "Delete business successful". The response status is **200 OK** with a response time of 5 ms and a body size of 197 B.



