

## Postman API tests

### I. Test Suite Overview:

- **Project:** Demoblaze API Testing
- **Tester:** (Asmaa Said,Aya Maher)
- **Date Created/Last Updated:** [14/4/2025]
- **Purpose:** This document outlines the API tests created for the Demoblaze application, covering the homepage, cart page, about page, login, signup, and contact functionalities. These tests aim to verify the correctness, reliability, and basic functionality of the underlying APIs that drive these pages.
- **Tools Used:** Postman
- **Environment:** [environment Demoblaze]

### II. Test Cases Documentation:

#### A. Homepage:

##### **Test Folder/Collection Name in Postman: Demoblaze API Tests / HomePage**

**Description:** Tests related to the data and functionality of the Demoblaze homepage.

##### **Test Cases:**

**1-Test Case Name:** [Login - Valid Credentials (POST)]

**Request Method:** POST

**Request URL:** [{{baseUrl}}/login]

**Pre-requisites:** A global variable baseUrl is set to <https://api.demoblaze.com>

**Environment variables:** validUsername and validPassword are set with valid user credentials.

##### **Request Body :**

```
{  
  "username": "{{validUsername}}",  
  "password": "{{validPassword}}"
```

}

- **Test Steps:**

1. Send a POST request to `{{baseUrl}}/login` with the username and password from the environment variables in the request body.

- **Expected Outcome:**

- Status code 200 OK.
- Response body is not empty.
- Response body is a string
- Store the authentication token in an environment variable

- **Pass/Fail Criteria:** All expected outcomes are met.

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**2-Test Case Name:** [Navigate to Phone Category (POST)]

**Request Method:** POST

**Request URL:** [`{{baseUrl}}/bycat`]

**Pre-requisites:** A global variable `baseUrl` is set to <https://api.demoblaze.com>

**Request Body :**

```
{  
  
  "cat": "phone"  
  
}
```

**Test Steps:**

1-Send a POST request to {{baseUrl}}/bycat with the category "phone" in the request body

**Expected Outcome:**

- Status code 200 OK.
- Response body contains an 'Items' array.
- Response body contains at least one phone in 'Items'
- Response body in 'Items' contains Samsung galaxy s6

**Pass/Fail Criteria:** All expected outcomes are met. The status code is 200, the response contains an "Items" array, and the items within the array have the expected structure and category.

---

**3-Test Case Name:** [Navigate to Laptops Category (POST)]

**Request Method:** POST

**Request URL:** [{{baseUrl}}/bycat?=?]

**Pre-requisites:** A global variable baseUrl is set to <https://api.demoblaze.com>

**Request Body :**

```
{  
  
  "cat": "notebook"  
  
}
```

**Test Steps:**

1-Send a POST request to {{baseUrl}}/bycat?=? with the category "Laptops" in the request body

**Expected Outcome:**

- Status code 200 OK.
- Response body contains an 'Items' array.
- Response body contains at least one laptop
- Response body in 'Items' contains Sony vaio i5

**Pass/Fail Criteria:** All expected outcomes are met. The status code is 200, the response contains an "Items" array, and the items within the array have the expected structure and category

---

4-Test Case Name: [Navigate to Monitors Category (POST)]

Request Method: POST

Request URL: [{{ baseUrl }}/bycat]

Pre-requisites: A global variable baseUrl is set to <https://api.demoblaze.com>

Request Body :

```
{  
  "cat": "monitor"  
}
```

### **Test Steps:**

1-Send a POST request to {{ baseUrl }}/bycat with the category "Monitors" in the request body

Expected Outcome:

- Status code 200 OK.
- Response body contains an 'Items' array.

- Response body contains at least one monitor
- Response body in 'Items' contains Apple monitor 24

**Pass/Fail Criteria:** All expected outcomes are met. The status code is 200, the response contains an "Items" array, and the items within the array have the expected structure and category

---

5-Test Case Name: [Get Phones Category Product Details (POST)]

Request Method: POST

Request URL: [{{ baseUrl }}/view]

Pre-requisites: A global variable baseUrl is set to <https://api.demoblaze.com>

An environment variable phoneProductId=set with value =1

**Request Body :**

```
{  
  "id": "{{phoneProductId}}"  
}
```

Test Steps:

1-Send a POST request to {{ baseUrl }}/view with the id of the phone product from the phoneProductId environment variable in the request body.

Expected Outcome:

- Status code 200 OK.

- Response body is a JSON object
- Response body has product details

Pass/Fail Criteria: All expected outcomes are met. The status code is 200, and the response body contains the detailed information for the requested phone product, with the correct category and ID.

---

6-Test Case Name: [Get Laptops Category Product Details (POST)]

Request Method: POST

Request URL: [{{ baseUrl }}/view]

Pre-requisites: A global variable baseUrl is set to <https://api.demoblaze.com>

An environment variable LaptopProductId=set with value =8

**Request Body :**

```
{  
  "id": "{{LaptopProductId}}"  
}
```

Test Steps:

1-Send a POST request to {{ baseUrl }}/view with the id of the phone product from the phoneProductId environment variable in the request body.

Expected Outcome:

- Status code 200 OK.
- Response body is a JSON object
- Response body has product details

Pass/Fail Criteria: All expected outcomes are met. The status code is 200, and the response body contains the detailed information for the requested phone product, with the correct category and ID.

---

7-Test Case Name: [Get monitors Category Product Details (POST)]

Request Method: POST

Request URL: [{{baseUrl}}/view]

Pre-requisites: A global variable baseUrl is set to <https://api.demoblaze.com>

An environment variable phoneProductId=set with value =10

Request Body :

```
{  
  "id": "{{MonitorProductId}}"  
}
```

Test Steps:

1-Send a POST request to `{{baseUrl}}/view` with the id of the phone product from the `phoneProductId` environment variable in the request body.

Expected Outcome:

- Status code 200 OK.
- Response body is a JSON object
- Response body has product details

Pass/Fail Criteria: All expected outcomes are met. The status code is 200, and the response body contains the detailed information for the requested phone product, with the correct category and ID.

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8-Test Case Name: [Next Button at any Category (POST)]

Request Method: POST

Request URL: `[{{baseUrl}}/pagination]`

Pre-requisites: A global variable `baseUrl` is set to `https://api.demoblaze.com`

An environment variable `phoneProductId`=set with value =9

Request Body :

```
{
  "id": "{{phoneProductId}}"
}
```



## Test Steps:

1-Send a POST request to `{{baseUrl}}/pagination` with the id of the last displayed phone product from the `phoneProductId` environment variable in the request body.

### Expected Outcome:

- Status code 200 OK.
- Response body is a JSON object
- Response body has product details

Pass/Fail Criteria: All expected outcomes are met. The status code is 200, and the response body contains the detailed information for the requested phone product, with the correct category and ID.

---

9-Test Case Name: [Previous Button at any c Category (POST)]

Request Method: POST

Request URL: `[{{baseUrl}}/pagination]`

Pre-requisites: A global variable `baseUrl` is set to `https://api.demoblaze.com`

An environment variable `phoneProductId`=set with value =1

Request Body :

```
{  
  "id": "{{phoneProductId}}"
```

}

#### Test Steps:

1-Send a POST request to {{baseUrl}}/pagination with the id of the last displayed phone product from the phoneProductId environment variable in the request body.

#### Expected Outcome:

- Status code 200 OK.
- Response body is a JSON object
- Response body has product details

Pass/Fail Criteria: All expected outcomes are met. The status code is 200, and the response body contains the detailed information for the requested phone product, with the correct category and ID.

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**10-Test Case Name:** [Navigate to Homepage via Logo (GET)]

**Request Method:**GET

**Request URL:** [{{baseUrl}}/entries]

**Pre-requisites:** A global variable baseUrl is set to <https://api.demoblaze.com>

#### Request Headers:

Content-Type: application/json

#### Test Steps:

1-Send a GET request to {{baseUrl}}/entries.

### **Expected Outcome:**

- Status code 200 OK.
- Response body is a JSON object
- Response body has an 'Items' array
- First item in 'Items' array has expected properties
- Response body might have 'LastEvaluatedKey'

**Pass/Fail Criteria:** All expected outcomes are met. The status code is 200, and the response body contains a non-empty "Items" array with product data, indicating that clicking the logo successfully navigates back to the homepage product listings

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### **B. About Page:**

**Test Folder/Collection Name in Postman:** Demoblaze API Tests / About Page

**Description:** Tests related to elements and links within the "About Us" page.

#### **Test Cases:**

**Test Case Name:** About us link - Retrieve Image (GET)

**Request Method:** GET

**Request URL:** {{baseUrl}}/imgs/front.jpg

**Pre-requisites:**

A global variable baseUrl is set to  
https://api.demoblaze.com.

### **Test Steps:**

Send a GET request to {{baseUrl}}/img/front.jpg.

Expected Outcome:

Response status code is 404 (Video Not Found)Response  
body is a valid JPEG image.

Response indicates 'Not Found' content type (may vary)

**Pass/Fail Criteria:** All expected outcomes are met.

---

### **C. Cart Page:**

**Test Folder/Collection Name in Postman:** Demoblaze  
API Tests / Cart Page

**Description:** Tests related to adding items to the user's  
shopping cart

### **Test Cases:**

**1-Test Case Name:** Add to Cart (POST)

**Request Method:** POST

**Request URL:** {{baseUrl}}/addtocart

### **Pre-requisites:**

A global variable baseUrl is set to  
https://api.demoblaze.com.

An environment variable id (representing the productId to add) is set to 1

**Request Body:**

```
{  
  "id": "2d397d2e-2bba-f3f5-2d72-1c452cc28368",  
  "cookie": "dHJpcGxlX2ExNzQ1MTE1",  
  "prod_id": "{{phoneProductId}}",  
  "flag": true  
}
```

**Test Steps:**

Send a POST request to {{baseUrl}}/addtocart with the id from the environment variables in the request body.

**Expected Outcome:**

Status code 200 OK.

Status code is 200 for adding to cart.

Cart cookie might have been updated

---

**2-Test Case Name:** Go to Cart page (POST)

**Request Method:** POST

**Request URL:** {{baseUrl}}/viewcart

**Pre-requisites:**

A global variable baseUrl is set to  
https://api.demoblaze.com.

An environment variable id (representing the productId to add) is set to 1

**Request Body:**

```
{  
  "cookie": "dHJpcGxlX2ExNzQ1MTE1",  
  "id": "2d397d2e-2bba-f3f5-2d72-1c452cc28368" ,  
  "prod_id": "{{phoneProductId}}",  
  "flag": true  
}
```

**Test Steps:**

Send a POST request to {{baseUrl}}/viewcart with the id from the environment variables in the request body.

**Expected Outcome:**

Status code is 200 for getting cart contents

Response body is a JSON object

Each item in the cart has expected properties

---

**3-Test Case Name:** Delete from Cart page (POST)

**Request Method:** POST

**Request URL:** {{baseUrl}}/deleteitem

**Pre-requisites:**

A global variable baseUrl is set to  
https://api.demoblaze.com.

**Request Body:**

```
{  
  "id": "2d397d2e-2bba-f3f5-2d72-1c452cc28368"  
}
```

**Test Steps:**

Send a POST request to {{baseUrl}}/deleteitem with the id from the environment variables in the request body.

**Expected Outcome:**

Status code is 200 for deleting item

Response indicates successful deletion (Not found is also acceptable if the item wasn't there)

Deleted item is no longer in the cart

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**D. Logout Page:**

- **Test Folder/Collection Name in Postman:** Demoblaze API Tests / Logout Page
- **Description:** Tests related to the user logout functionality.
- **Test Cases:**
  - **Test Case Name:** Logout link - Navigate to Homepage (GET)
  - **Request Method:** GET

- **Request URL:** `{{baseUrl}}/entries`
  - **Pre-requisites:**
    - A global variable `baseUrl` is set to `https://api.demoblaze.com`.
    - A user should be logged in (indicated by the presence of session cookies, likely `PHPSESSID`).
  - **Test Steps:**
    1. Ensure a user is logged in (has a valid session cookie).
    2. Send a GET request to `{{baseUrl}}/entries`.
  - **Expected Outcome:**
    - Status code 200 OK.
    - Response body has 'Items' array
- 

## **E. Signup Page:**

- **Test Folder/Collection Name in Postman:** Demoblaze API Tests / Signup Page
- **Description:** Tests related to the user registration functionality.
- **Test Cases:**
  - **Test Case Name:** Signup - Valid Credentials (POST)
  - **Request Method:** POST
  - **Request URL:** `{{baseUrl}}/signup`
  - **Pre-requisites:**
    - A global variable `baseUrl` is set to `https://api.demoblaze.com`.



- An environment variable `signupUsername` is set to a unique username for successful registration.
- An environment variable `signupPassword` is set to a password for the new user.
- **Request Body (Example):**

JSON

```
{
  "username":
  "{{signupUsername}}",
  "password":
  "{{signupPassword}}"
}
```

- **Test Steps:**
    1. Send a POST request to `{{baseUrl}}/signup` with a unique username and password from the environment variables in the request body.
  - **Expected Outcome:**
    - Status code is 200 for successful signup
  - Response body indicates signup failure (user already exists)
  - **Pass/Fail Criteria:** Status code is 200 and the response indicates successful signup.
- 

**2-Test Case Name:** Signup - Valid Username, Empty Password (POST)

- **Request Method:** POST
- **Request URL:** `{{baseUrl}}/signup`

- **Pre-requisites:**

- A global variable `baseUrl` is set to `https://api.demoblaze.com`.
- An environment variable `validUsername` is set to a username that is syntactically valid for registration.

- **Request Body (Example):**

JSON

```
{  
    "username": "{{validUsername}}",  
    "password": ""  
}
```

- **Test Steps:**

1. Send a POST request to `{{baseUrl}}/signup` with a valid username from the environment variable and an empty string as the password in the request body.

- **Expected Outcome:**

- Status code should indicate an error (e.g., 400)
- Response body should indicate password is required.

- **Pass/Fail Criteria:**

- Status code is one of the expected error codes (e.g., 400).
  - Response body contains an error message (likely within an `errorMessage` field) that includes the word "password" (case-insensitive), indicating the missing password.
- 

**3 Test Case Name:** Signup - Valid Password, Empty Username (POST)

- **Request Method:** POST

- **Request URL:** `{{baseUrl}}/signup`

- **Pre-requisites:**

- A global variable `baseUrl` is set to `https://api.demoblaze.com`.
- An environment variable `validPassword` is set to a password that is syntactically valid for registration.

- **Request Body (Example):**

JSON

```
{
    "username": "",
    "password": "{{validPassword}}"
}
```

- **Test Steps:**

1. Send a POST request to `{{baseUrl}}/signup` with an empty string as the username and a valid password from the environment variable in the request body.

- **Expected Outcome:**

- Status code should indicate an error (e.g., 400)

Response body should indicate username is required

- **Pass/Fail Criteria:**

- Status code is one of the expected error codes (e.g., 400).
- Response body (which might be plain text in this case, as indicated by `pm.response.text()`) includes the word "username" (case-insensitive), indicating the missing username.

4- **Test Case Name:** Signup - Empty Username and Password (POST)

- **Request Method:** POST

- **Request URL:** `{{baseUrl}}/signup`

- **Pre-requisites:**

- A global variable `baseUrl` is set to `https://api.demoblaze.com`.

- **Request Body (Example):**

JSON

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

- **Test Steps:**

1. Send a POST request to `{{baseUrl}}/signup` with empty strings for both username and password in the request body.

- **Expected Outcome:**

- Status code should indicate an error (e.g., 400)
  - Response body should indicate username and password are required

- **Pass/Fail Criteria:**

- Status code is one of the expected error codes (e.g., 400).
    - Response body (which might be plain text, as indicated by `pm.response.text()`, or JSON if the server returns a structured error) includes the words "username" and "password" (case-insensitive), indicating that both fields are required.
- 

## F. Login Page:

- **Test Folder/Collection Name in Postman:** Demoblaze API Tests / Login Page
- **Description:** Tests related to the user login functionality

## **1-Test Case Name:** Login - Unregistered Username, Registered Password (POST)

- **Request Method:** POST
- **Request URL:** {{baseUrl}}/login
- **Pre-requisites:**
  - A global variable baseUrl is set to https://api.demoblaze.com.
  - An environment variable unregisteredUsername is set to a username that is not registered in the system.
  - An environment variable registeredPassword is set to a password that belongs to an existing user (though paired with the wrong username in this test).

- **Request Body (Example):**

JSON

```
{  
    "username": "{{unregisteredUsername}}",  
    "password": "{{registeredPassword}}"  
}
```

- **Test Steps:**
  1. Send a POST request to {{baseUrl}}/login with an unregistered username and a registered password from the environment variables in the request body.
- **Expected Outcome:**
  - Status code should indicate unsuccessful login (e.g., 401 or 200 with error)
  - 
  - Response body indicates user does not exist.
  - 
  - Authentication token is not returned
- 
- Session cookies are not set or remain unchanged
- **Pass/Fail Criteria:**
  - Status code is one of the expected error codes (e.g., 401 or 200).

- Response body (likely JSON, as indicated by `pm.response.json()`) contains an error message (likely within an `errorMessage` field) that includes text like "User does not exist" or "Wrong username/password" (case-insensitive).
  - No authentication token is present in the response body.
  - Session cookies are not set or remain the same.
- 

## 2-Test Case Name: Login - Valid Username, Incorrect Password (POST)

- **Request Method:** POST
- **Request URL:** `{{baseUrl}}/login`
- **Pre-requisites:**
  - A global variable `baseUrl` is set to `https://api.demoblaze.com`.
  - An environment variable `validUsername` is set to a username that is registered in the system.
  - An environment variable `incorrectPassword` is set to a password that does not match the `validUsername`.

- **Request Body (Example):**

JSON

```
{
  "username": "{{validUsername}}",
  "password": "{{incorrectPassword}}"
}
```

- **Test Steps:**
  1. Send a POST request to `{{baseUrl}}/login` with a valid username and an incorrect password from the environment variables in the request body.
- **Expected Outcome:**

- Status code should indicate unsuccessful login (e.g., 401 or 200 with error)
  - Response body indicates incorrect password
  - Authentication token is not returned
  - Session cookies are not set or remain unchanged
- **Pass/Fail Criteria:**
    - Status code is one of the expected error codes (e.g., 401 or 200).
    - Response body (likely JSON, as indicated by `pm.response.json()`) contains an error message (likely within an `errorMessage` field) that includes text like "Wrong password" or "Invalid credentials" (case-insensitive).
    - No authentication token is present in the response body.
    - Session cookies are not set or remain the same.
- 

### 3-Test Case Name: Login - Empty Username and Password (POST)

- **Request Method:** POST
- **Request URL:** `{{baseUrl}}/login`
- **Pre-requisites:**
  - A global variable `baseUrl` is set to `https://api.demoblaze.com`.
- **Request Body (Example):**

JSON

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

- **Test Steps:**

1. Send a POST request to `{{baseUrl}}/login` with empty strings for both username and password in the request body.

- **Expected Outcome:**

- Status code should indicate unsuccessful login (e.g., 401 or 200 with error)
  - Response body indicates missing username
  - Authentication token is not returned.
  - Session cookies are not set or remain unchanged
- 

**g. Contact Page:**

- **Test Folder/Collection Name in Postman:** Demoblaze API Tests / Contact Page
- **Description:** Tests related to submitting messages through the contact form.
- **Test Case Name:** Contact - Send Message (GET)
- **Request Method:** GET
- **Request URL:**  
`{{baseUrl}}/entries?email={{contactEmail}}&name={{contactName}}&message={{contactMessage}}`
- **Pre-requisites:**
  - A global variable `baseUrl` is set to `https://api.demoblaze.com`.
  - Environment variables `contactEmail`, `contactName`, and `contactMessage` are set to valid contact information (e.g., `triple3a@gmail.com`, `Aya`, `Hello`).
- **Request Query Parameters:**
  - `email: {{contactEmail}}` (Contact email address)
  - `name: {{contactName}}` (Contact name)
  - `message: {{contactMessage}}` (Message content)
- **Test Steps:**
  1. Ensure the environment variables for contact details are set.



2. Send a GET request to the constructed URL with the contact information as query parameters.
- **Expected Outcome:**
    - Status code is 200.
    - Response body is not empty.
    - Response body is a JavaScript array.
- 

## V. Collection Run Summary:

- **Collection Name:** Demoblaze API Tests
- **Run Date and Time (Cairo Time):** April 14, 2025 at 06:32:04 EET
- **Source:** Runner (Indicates the tests were executed using the Postman Collection Runner)
- **Environment:** Demoblaze Environment (The specific environment used for this test run)
- **Iterations:** 1 (The collection was executed once)
- **Duration:** 14 seconds and 120 milliseconds (The total time taken to execute all the tests)
- **All tests:** 80 (The total number of test assertions across all requests in the collection)
- **Avg. Resp. Time:** 504 milliseconds (The average time taken for the API to respond to each request in the collection)