

## ✅ Updated POST Home Task (No API Key Needed)

### 🔗 URL:

arduino

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<https://jsonplaceholder.typicode.com/posts>

### 🔧 Step-by-Step Instructions:

1. **Open Postman**
2. Set request type to POST
3. Enter the URL:

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<https://jsonplaceholder.typicode.com/posts>

4. Go to the **Body** tab → select **raw**
5. Choose **JSON** from dropdown
6. Enter the following JSON data:

json

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```
{  
  "title": "Shreevijay the Tester",  
  "body": "Learning to test APIs with Postman!",  
  "userId": 101  
}
```

7. Click **Send**

---

## ✅ You Should See This Response:

- **Status:** 201 Created
- A response body like:

json

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```
{  
  "title": "Shreevijay the Tester",  
  "body": "Learning to test APIs with Postman!",  
  "userId": 101,  
  "id": 101  
}
```

📌 Note: jsonplaceholder.typicode.com is a **fake REST API** used for testing. It won't actually store your data — but it simulates a real POST response perfectly.

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### 🔍 What to Check:

Criteria	Expectation
✅ Status Code	201 Created
✅ Response Body	Same data you sent + new id field
✅ Format	JSON

### ✅ As a QA, What Should You Do After Sending a POST Request?

#### 🎯 1. Check the Status Code

- **Expected:** 201 Created
- **Wrong Example:** 400 Bad Request, 401 Unauthorized, 500 Internal Server Error
- **QA Action:**
  - If wrong → log a **bug** with details like: status code, request sent, and response received.

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#### 🎯 2. Verify Response Body

- It should return the **same data** you sent:

json

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```
{  
  "title": "Shreevijay the Tester",  
  "body": "Learning to test APIs with Postman!",  
  "userId": 101,  
  "id": 101  
}
```

- **QA Checks:**
    - Did all the fields get created correctly?
    - Did you get an **auto-generated ID** (e.g., id: 101)?
    - Is the **data format** correct? (JSON, correct keys, values, etc.)
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### 3. Check Server Behavior

- Was data saved? (In real API — we would verify by sending a GET request and checking if this new data appears)
  - Is the data duplicated if POST sent again?
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### If Data Is Wrong — What Should a QA Do?

Let's say the server returns this:

json

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```
{  
  "user": "Shree",  
  "text": "Hello"  
}
```

Or:

json

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```
{  
  "error": "Missing title"
```

}

## Then as QA, You Should:

### 1. Report a Bug

Example:

vbnet

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Title: POST /posts API does not return expected keys in response

Steps to Reproduce:

1. Send POST request to /posts with body...
2. Observe response structure

Expected:

Response should return fields: title, body, userId, id

Actual:

Response missing "title" and "body"

Severity: High

Priority: High

### 2. Check Developer Contract





- Use API documentation/schema to compare expected vs actual fields.
- Raise issue if it violates the contract.

### 3. Test Negative Scenarios:

- Remove a required field (e.g., title)
- Enter wrong data type (e.g., "userId": "abc" instead of number)
- Ensure the system rejects invalid input.

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 **Summary: Role of QA in POST Testing**

QA Task	Goal
 Validate request + response	Correct fields, status, and formatting
 Report bugs on failure	Status code, field mismatch, format errors
 Check consistency	Repeatability, uniqueness of data, duplicates
 Test invalid inputs	See if app handles errors gracefully