

API Testing Documentation

Using Postman

Steps to Test the API

1. **Install Postman:** Download and install Postman from <https://www.postman.com/>.

2. **Create a New Request:**

- Click **New** -> **Request**.
- Select **POST** as the request type.
- Enter the API URL: `http://127.0.0.1:1000/predictapi`.

3. **Set Headers:**

- Go to the **Headers** tab.
- Add a new header:
 - **Key:** Content-Type
 - **Value:** `application/json`

4. **Add Body:**

- Go to the **Body** tab.
- Select **raw** and set the input as JSON.
- Example input:

```
{
  "gender": "Female",
  "learning_support": "Private Coaching",
  "parent_education": "Bachelor",
  "had_lunch": "Yes",
  "course_completed": "Complete",
  "percentage_in_test1": 78,
  "percentage_in_test2": 84
}
```

5. **Send the Request:**

- Click the **Send** button.
- View the response in the bottom section of Postman.

6. **Example Response:**

```
{
  "predicted_score": 81.5,
  "graph": "data:image/png;base64,..."
}
```

Postman Collection

Exported Collection

Here's a guide to create and export a Postman collection:

1. **Create Collection:**

- In Postman, click **Collections** -> **New Collection**.
- Name the collection (e.g., `Student Performance API`).

2. **Add Request:**

- Add a request to the collection for the `/predictapi` endpoint with the steps mentioned above.

3. **Export Collection:**

- Right-click the collection and select **Export**.
- Choose **v2.1** format.
- Save the exported `.json` file.

Importing the Collection

1. Provide the exported `.json` file in the project repository for users.
2. Instruct users to import the collection:
 - Open Postman.

- Click **Import** -> **Upload Files**.
- Select the provided `.json` file and import.

Using `curl` for Testing

Alternatively, test the API using the `curl` command in a terminal:

```
curl -X POST http://127.0.0.1:1000/predictapi \  
-H "Content-Type: application/json" \  
-d '{"gender": "Female",  
"learning_support": "Private Coaching",  
"parent_education": "Bachelor",  
"had_lunch": "Yes", "course_completed": "Complete",  
"percentage_in_test1": 78, "percentage_in_test2": 84}'
```

Expected Output

```
{  
  "predicted_score": 81.5,  
  "graph": "data:image/png;base64,..."  
}
```