

API Endpoints Documentation

1. Homepage

- URL: `http://127.0.0.1:5000/`
- Method: `GET`
- Description: Renders the `index.html` template.
- Response: Renders an HTML page (no JSON output).

2. Get All Data

- URL: `http://127.0.0.1:5000/getAllData`
- Method: `GET`
- Description: Fetches all `Person` records from the database.
- Sample Response (if data is found):

json

```
[
  {
    "id": 1,
    "name": "Luke Skywalker",
    "height": "172",
    "mass": "77",
    "hairColor": "blond",
    "skinColor": "fair",
    "eyeColor": "blue",
    "birthYear": "19BBY",
    "gender": "male"
  },
  {
    "id": 2,
    "name": "Leia Organa",
    "height": "150",
    "mass": "49",
    "hairColor": "brown",
    "skinColor": "light",
    "eyeColor": "brown",
    "birthYear": "19BBY",
```

```
    "gender": "female"
  }
]
```

- **Sample Response (if no data is found):**

```
json
{
  "message": "No data found!"
}
```

3. Fetch Data from External API and Save to Database

- **URL:** `http://127.0.0.1:5000/fetchData`
- **Method:** `GET`
- **Description:** Fetches Star Wars characters from the Star Wars API and stores them in the database.
- **Sample Response (on successful fetch and save):**

```
json
{
  "message": "Data fetched and saved successfully!"
}
```

- **Sample Response (on error):**

```
json
{
  "error": "Error message here"
}
```

4. Edit Data by ID

- **URL:** `http://127.0.0.1:5000/editData/<id>`
Replace `<id>` with the ID of the `Person` to update (e.g., 1).
- **Method:** `PUT`
- **Description:** Updates details of a `Person` record with the specified ID.
- **Request Payload:**

json

```
{
  "name": "Updated Name",
  "height": "180",
  "mass": "80"
}
```

- **Sample Response (on successful update):**

json

```
{
  "message": "Person data updated successfully!"
}
```

- **Sample Response (if person not found):**

json

```
{
  "message": "Person not found!"
}
```

5. Get Data by ID

- **URL:** `http://127.0.0.1:5000/getData/<id>`
Replace `<id>` with the ID of the `Person` to retrieve (e.g., 1).
- **Method:** `GET`
- **Description:** Retrieves details of a `Person` record by ID.
- **Sample Response (if person is found):**

json

```
{
  "id": 1,
  "name": "Luke Skywalker",
  "height": "172",
  "mass": "77",
  "hairColor": "blond",
  "skinColor": "fair",
  "eyeColor": "blue",
}
```

```
"birthYear": "1988",
"gender": "male"
}
```

- **Sample Response (if person not found):**

```
json

{
  "message": "Person not found!"
}
```

6. Delete Data by ID

- **URL:** `http://127.0.0.1:5000/deleteData/<id>`
Replace `<id>` with the ID of the `Person` to delete (e.g., 1).
- **Method:** `DELETE`
- **Description:** Deletes a `Person` record by ID.
- **Sample Response (on successful deletion):**

```
json

{
  "message": "Person deleted successfully!"
}
```

- **Sample Response (if person not found):**

```
json

{
  "message": "Person not found!"
}
```

Additional Notes

- **Error Handling:** If any exceptions occur during endpoint execution, the response will include the error message in JSON format:

```
json
```

```
{  
  "error": "Detailed error message"  
}
```

- **Starting the Application:** Run the app using:

```
bash
```

```
python app.py
```

Access it at `http://127.0.0.1:5000/` .