

API Testing

Todo API

Test Case ID	Description	Endpoint & Method	Steps	Expected Result	Actual Result	Status	Screenshots
TC01	Get access token	POST / login	Send Post request in Postman	Should return access token (200 OK)	200 OK, Provided access token	Pass	Figure 1
TC02	Get all tasks of single user	GET / tasks	Add access token in authorization section and Send Get request in postman	Should return all tasks of single user	200 OK, Returns JSON array of tasks	Pass	Figure 2
TC03	Create new task	POST / tasks	Add access token in authorization section and Send Post request with body <pre>{ "title": "create mini task", "completed": false }</pre>	Should return JSON response with task and user details, (201 Created)	201 Created with JSON response	Pass	Figure 3
TC04	Update existing tasks	PATCH / tasks/7	Add access token in authorization section and Send Patch request with body <pre>{ "completed": true }</pre>	Should return JSON response with Id = 7	200 OK, JSON response With Id = 7	Pass	Figure 4
TC05	Delete task	DELETE/task s/7	Add access token in authorization section and Send Delete request	Task is deleted, API confirms deletion (status code 200 OK or 204 No Content)	JSON response <pre>{ deleted : true }</pre>	Pass	Figure 5

Output

1. Post request to get access token

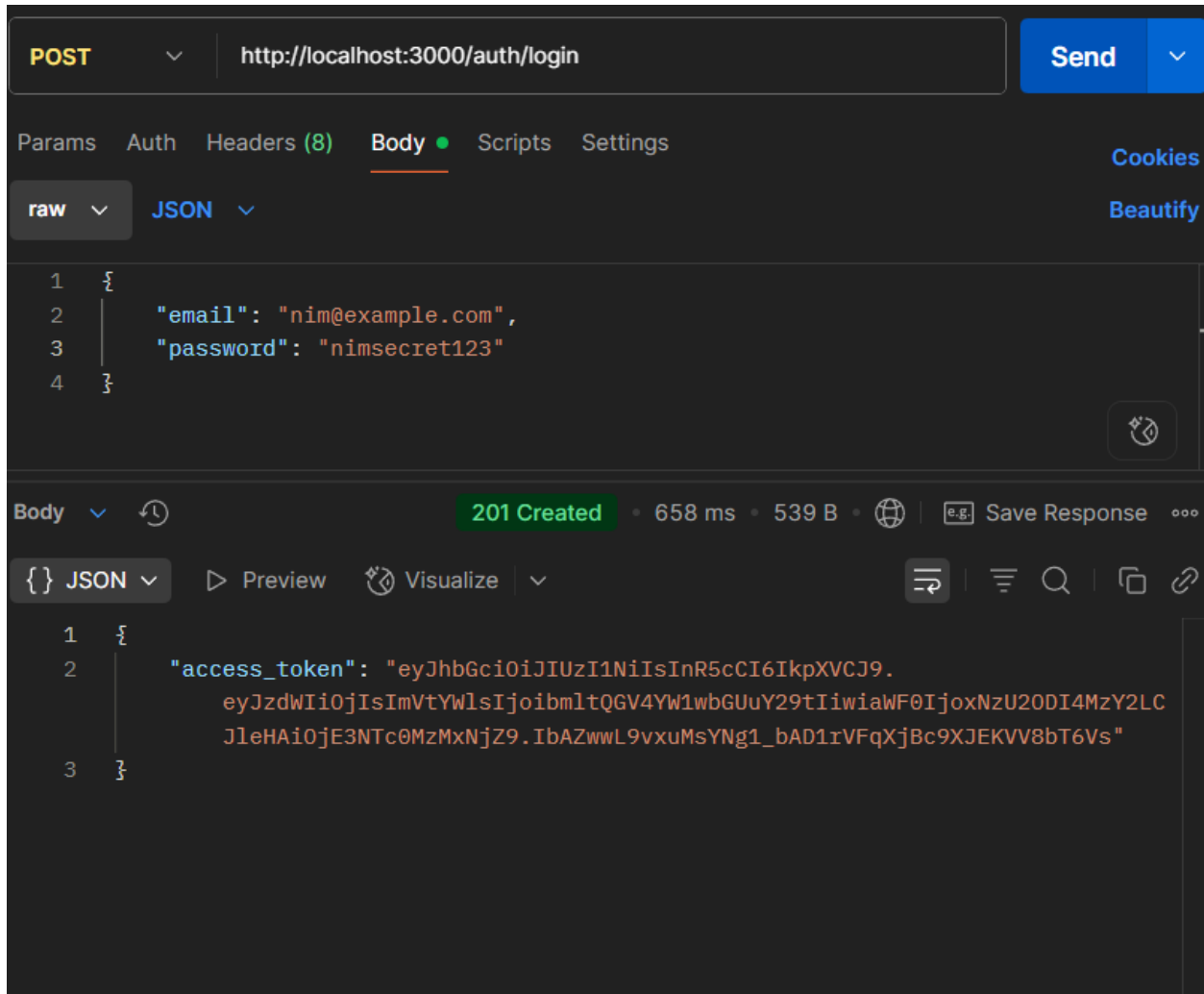


Figure 1: Access token

2. Get all tasks of login user

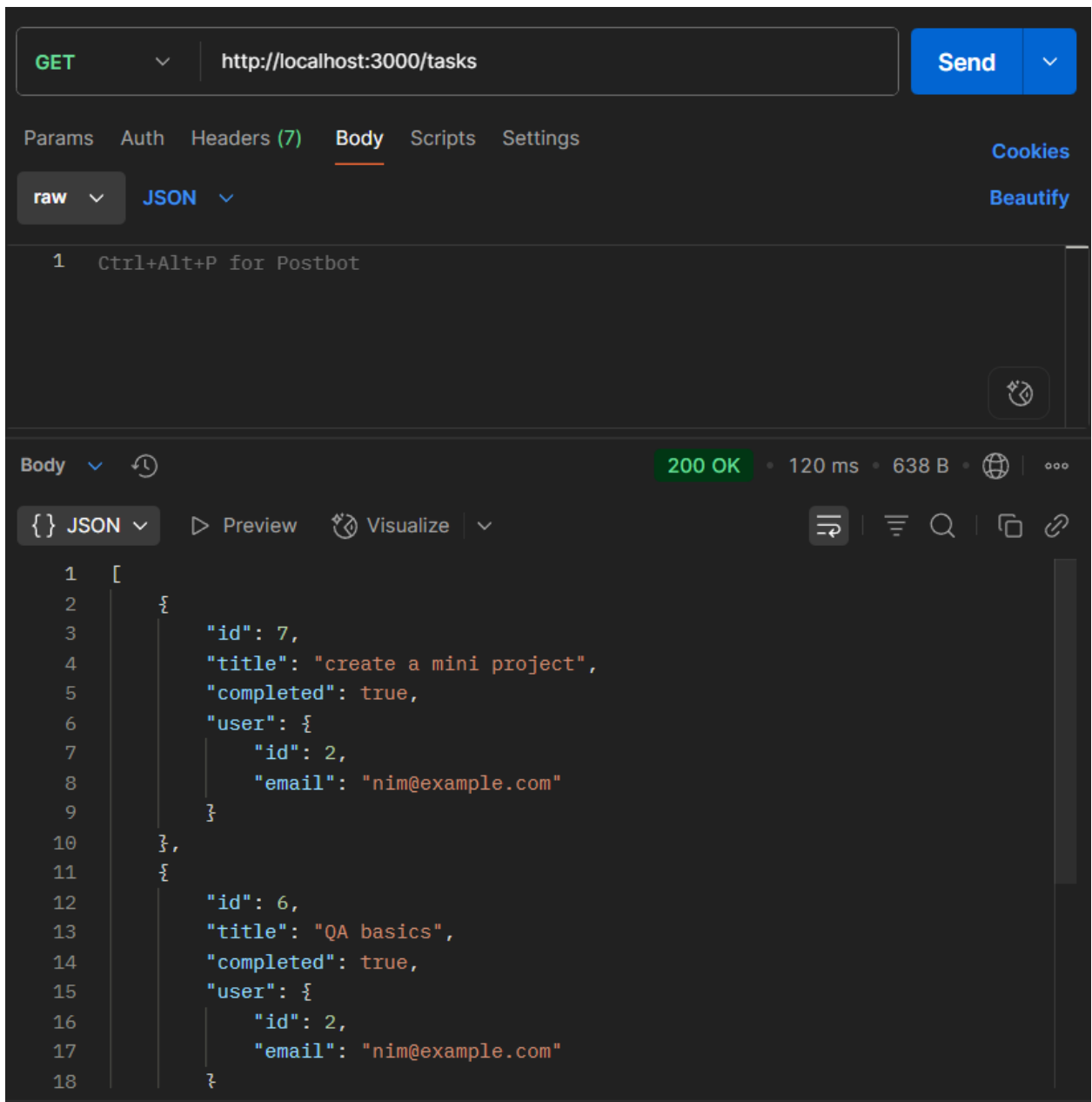


Figure 2: Get all tasks of login user

3. Create new task

The screenshot displays a REST client interface with the following components:

- Request Section:**
 - Method: **POST**
 - URL: `http://localhost:3000/tasks`
 - Buttons: **Send** (highlighted with a blue box), and a dropdown arrow.
 - Tabs: Params, Auth, Headers (9), **Body** (selected), Scripts, Settings.
 - Body Format: **raw** (dropdown), **JSON** (dropdown).
 - Actions: **Cookies** and **Beautify** (links).
- Request Body:**

```
1 {  
2   "title": "create a mini project"  
3 }  
4
```
- Response Section:**
 - Tab: **Body** (selected), with a refresh icon.
 - Status Bar: **201 Created** (in a green box), 277 ms, 447 B, and a globe icon.
 - Actions: **JSON** (dropdown), **Preview**, **Visualize**, and a dropdown arrow.
 - Tools: Icons for expand/collapse, list, search, copy, and share.
 - Response Body:**

```
1 {  
2   "id": 7,  
3   "title": "create a mini project",  
4   "completed": false,  
5   "user": {  
6     "id": 2,  
7     "email": "nim@example.com"  
8   }  
9 }
```

Figure 3: Create new task

4. Update existing tasks

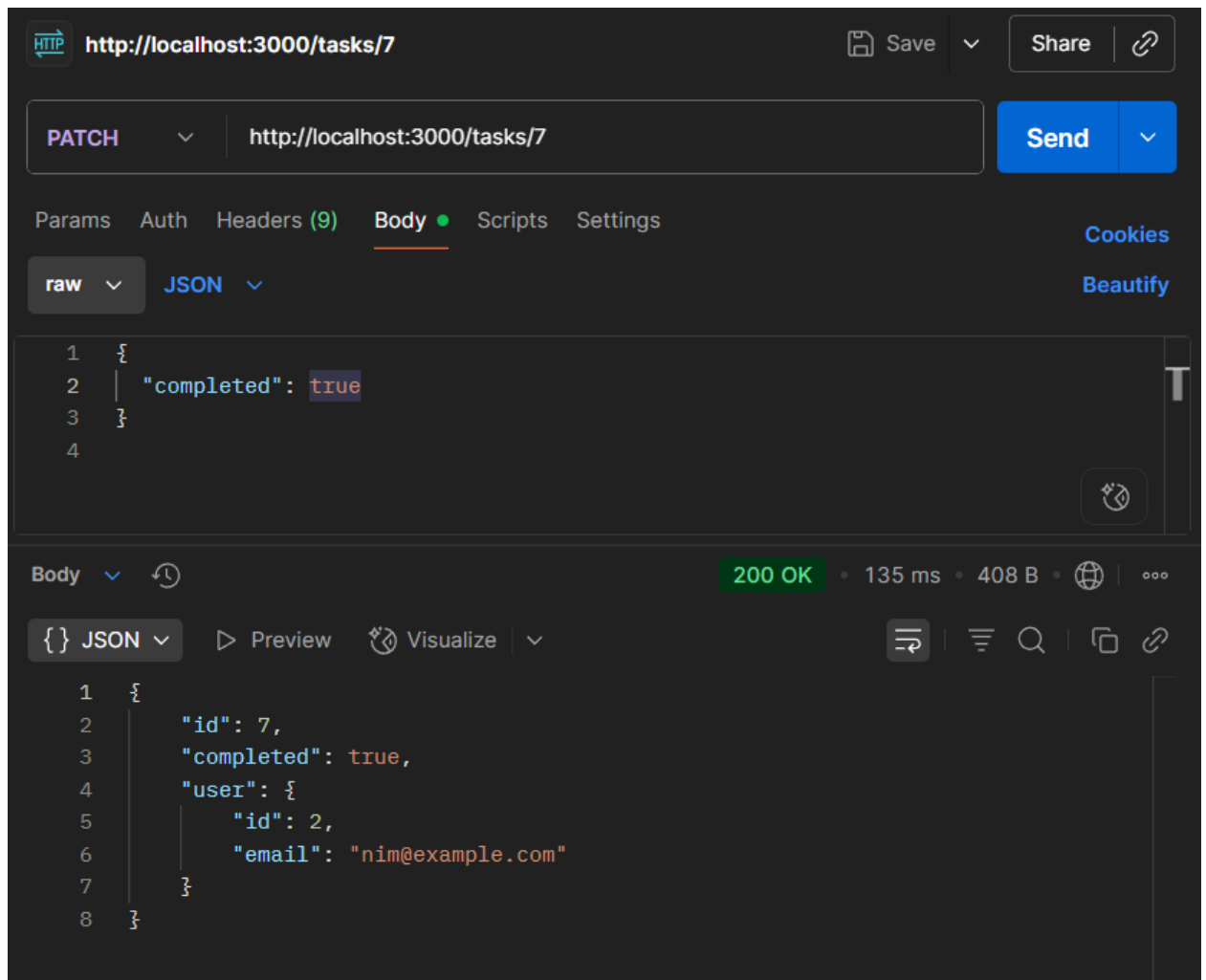


Figure 4: Update existing tasks

5. Delete Task

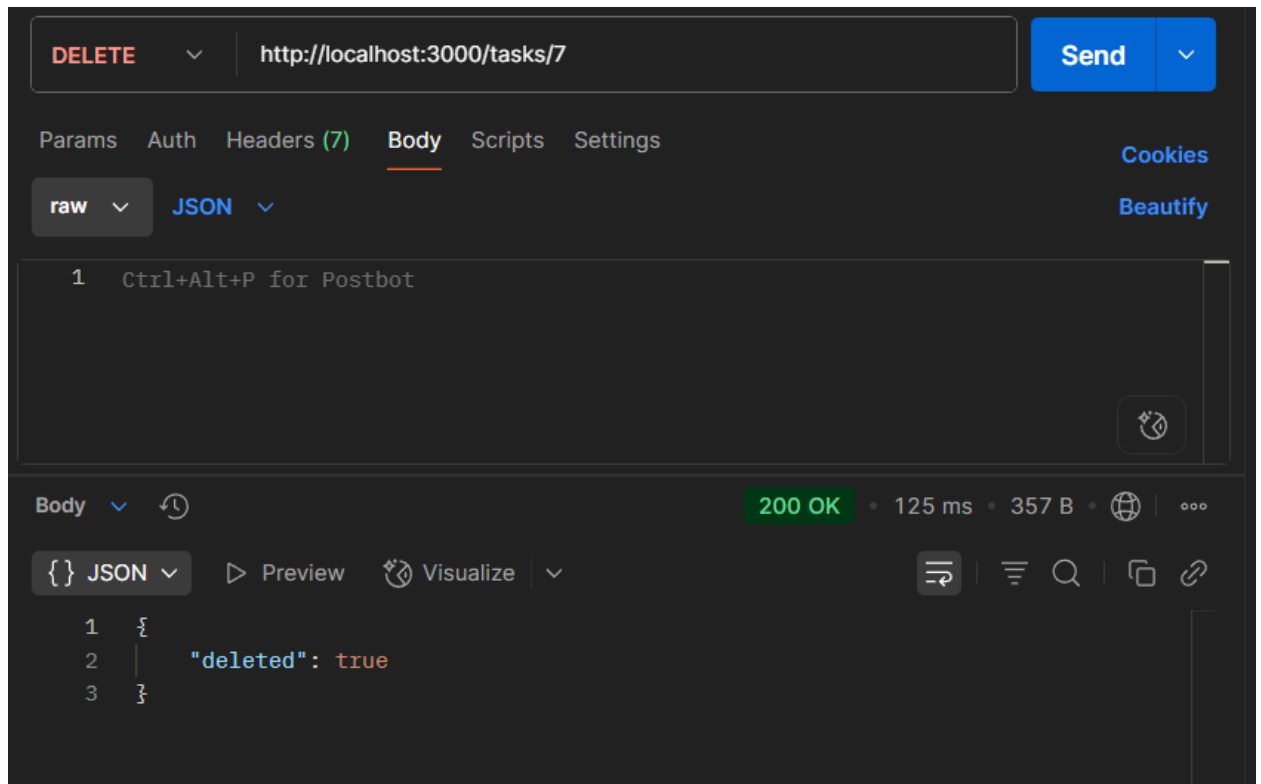


Figure 5: Delete task of Id = 7