

# ITL LAB: EXPERIMENT 4

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**UID: 2019140059**

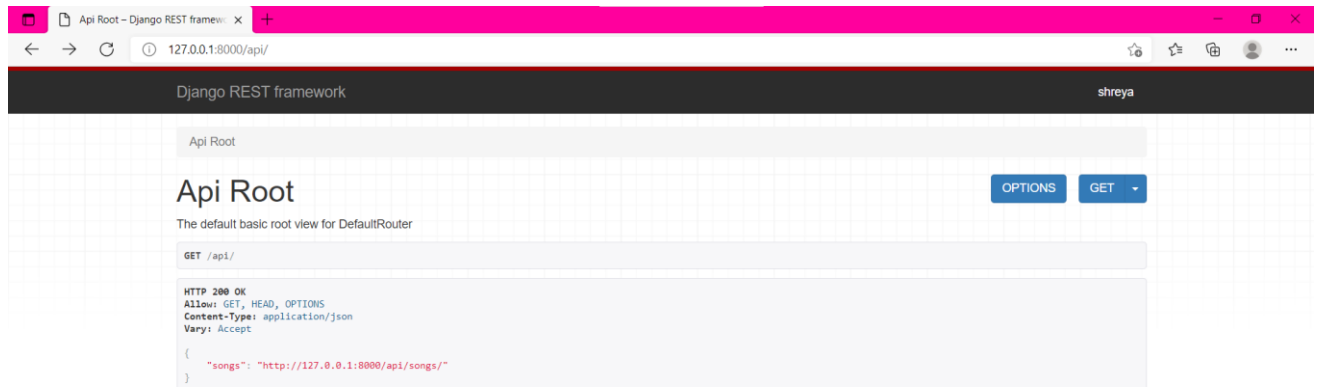
**CLASS: TE IT**

**BATCH: D**

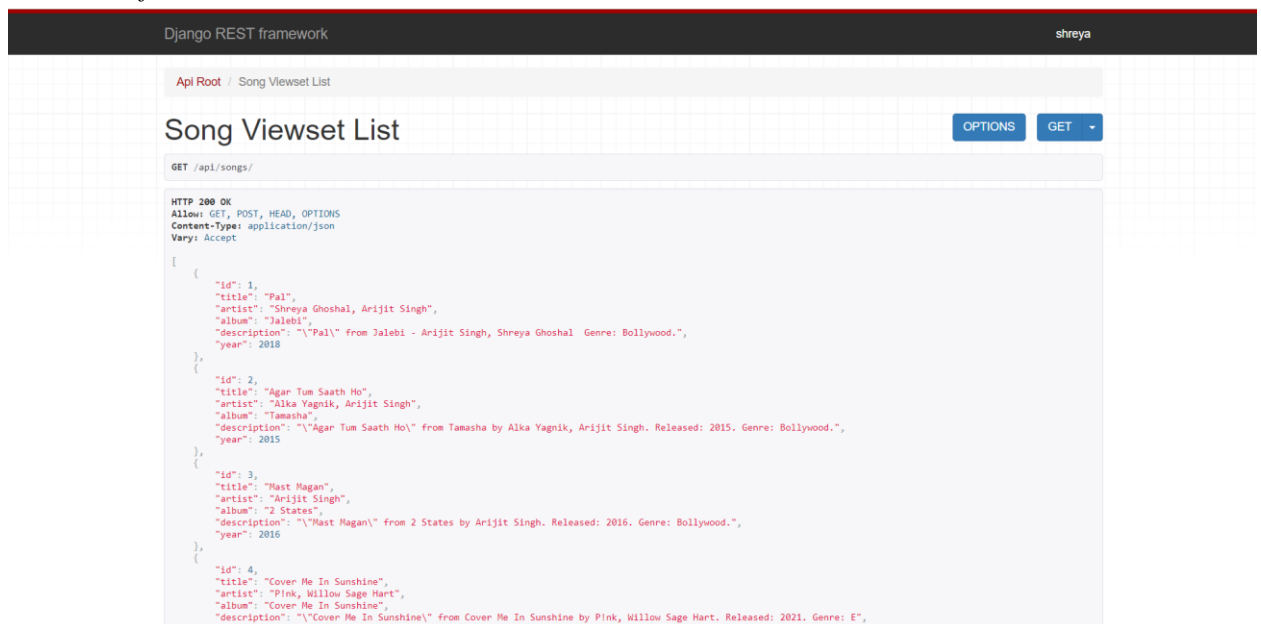
**AIM:** Create a Web-Service using any Framework and Perform GET/POST/PUT/DELETE operations.

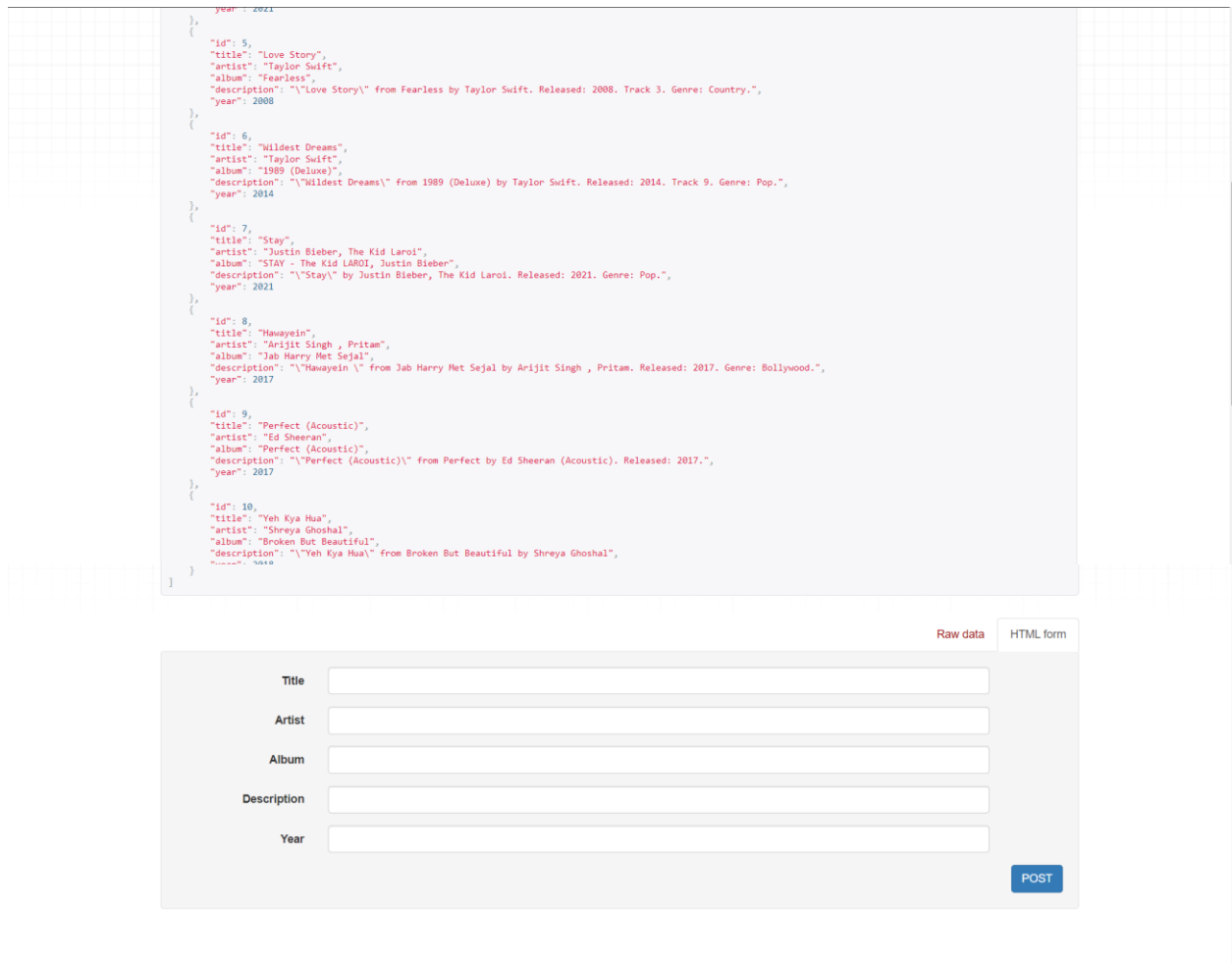
**OUTPUT:**

## 1. API Root Path:

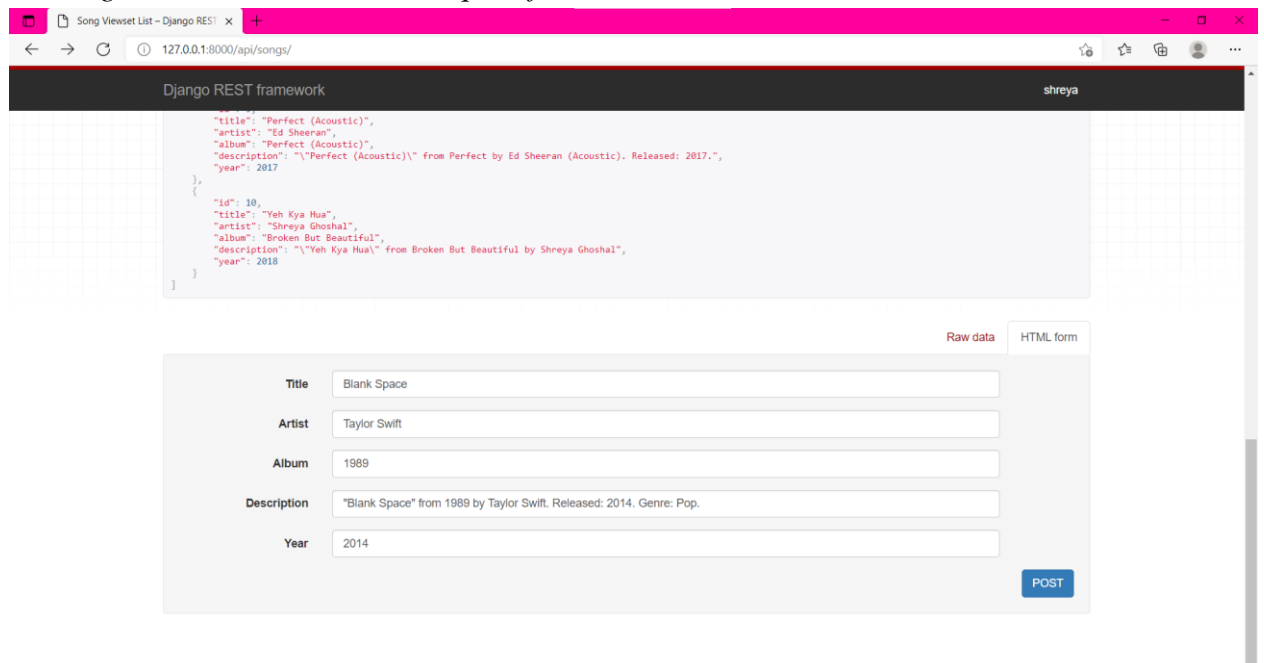


## 2. First GET from website:

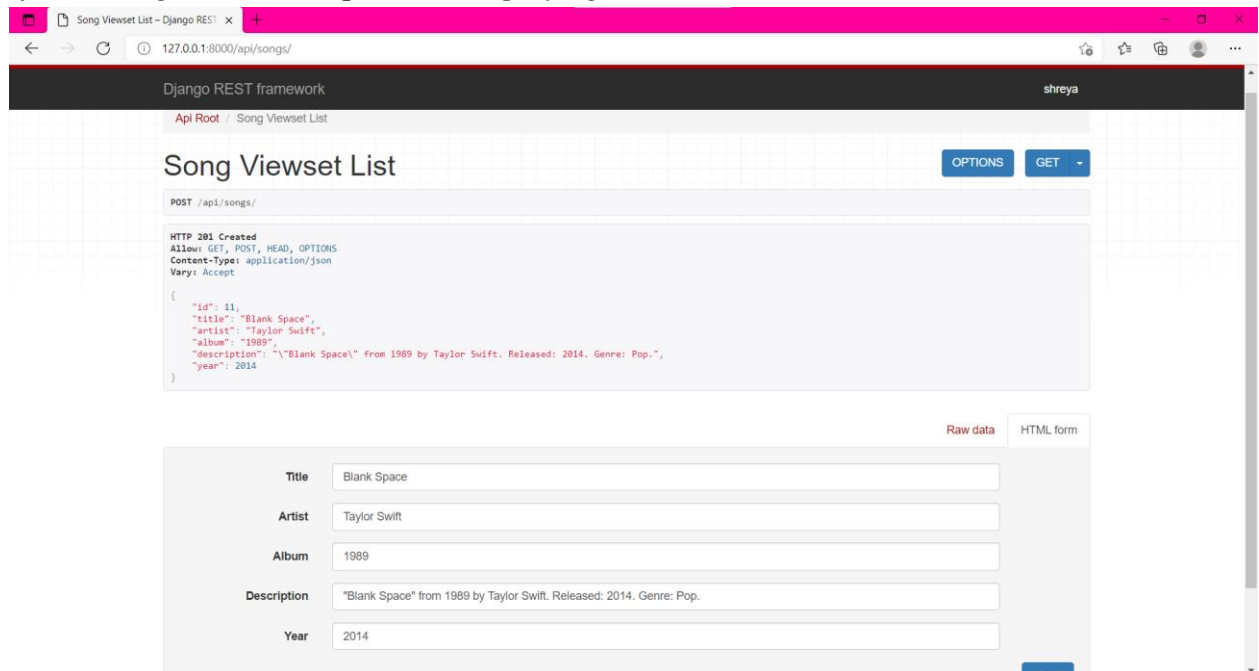




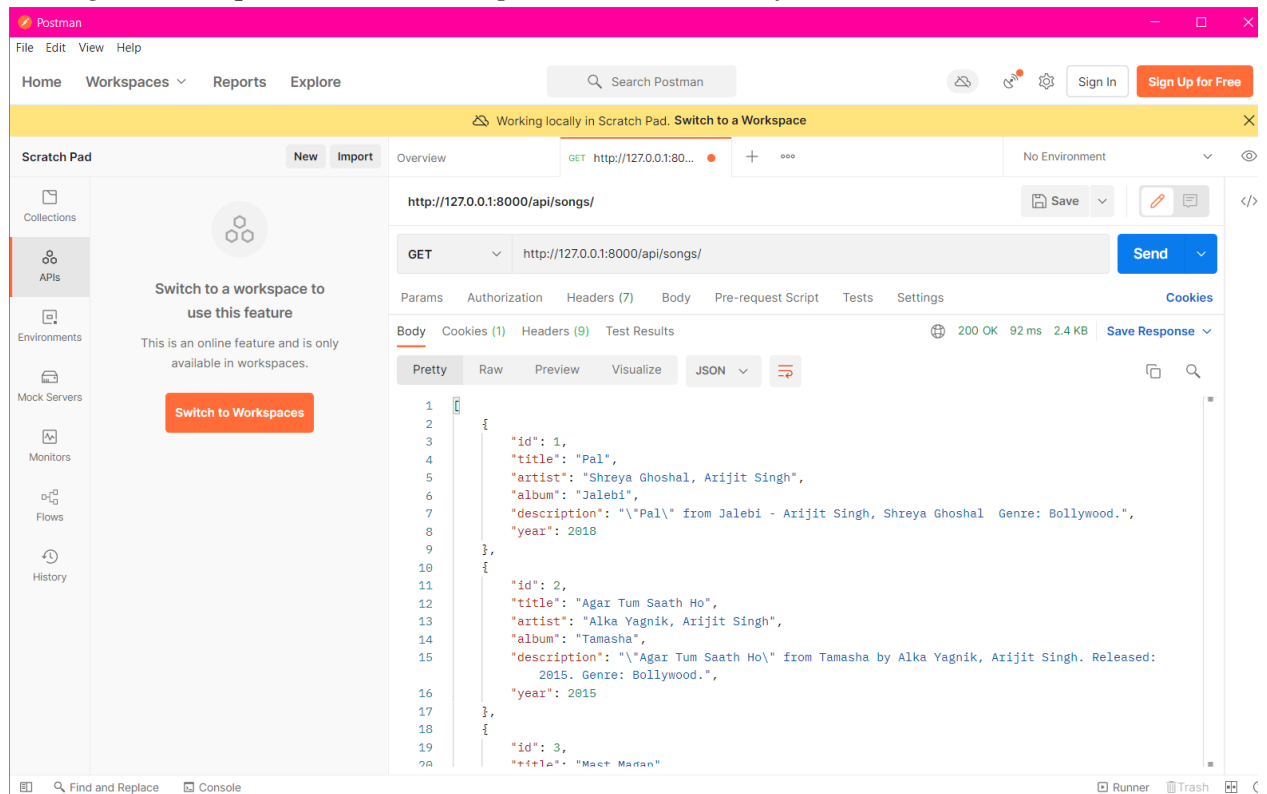
### 3. Entering the data to make POST request from the website :



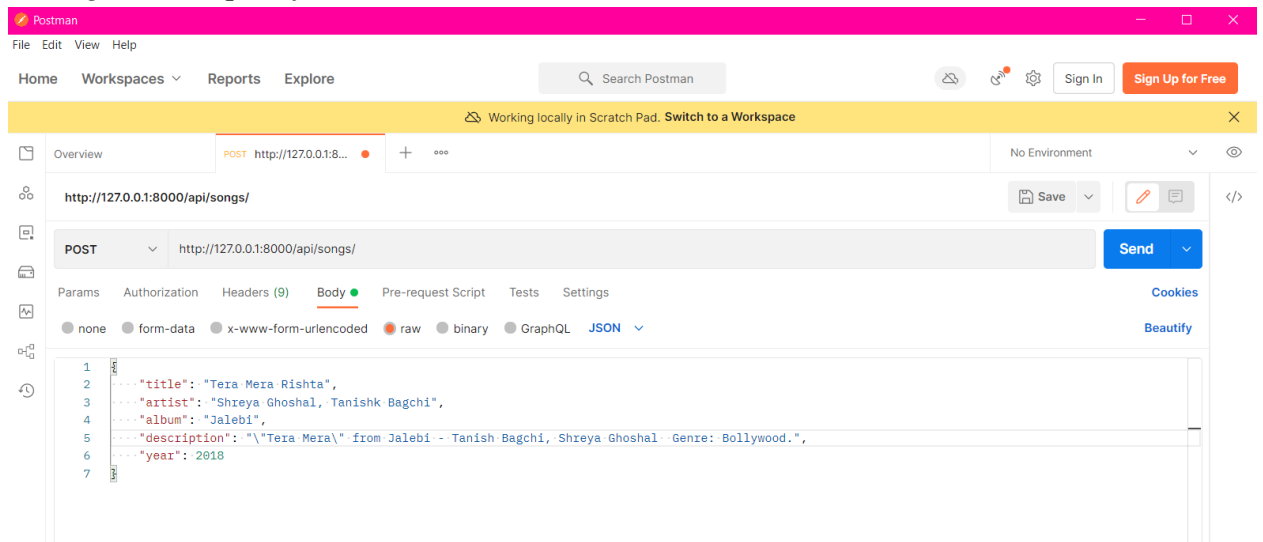
4. After making the POST request it is displaying the data with id=11 as HTTP 201 Created:



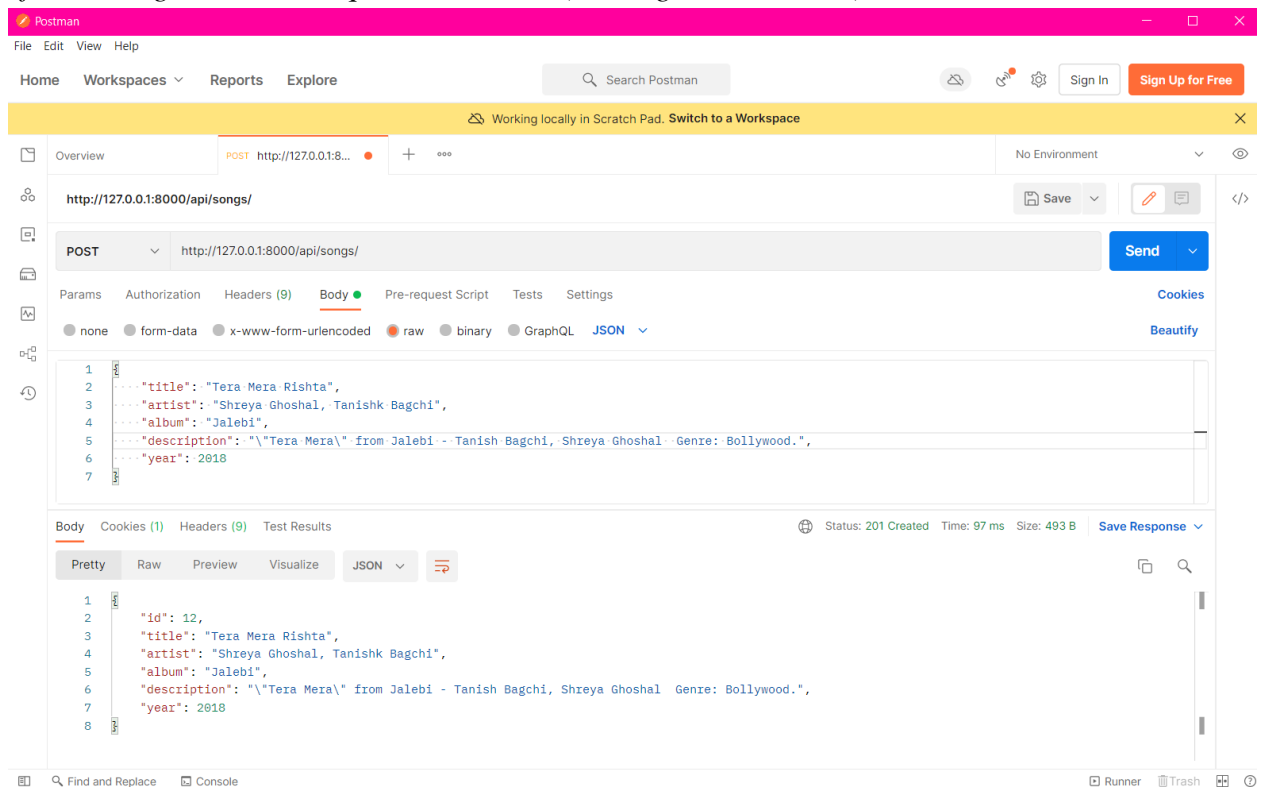
5. Making a GET request in Postman (Output with status code of 200 OK):



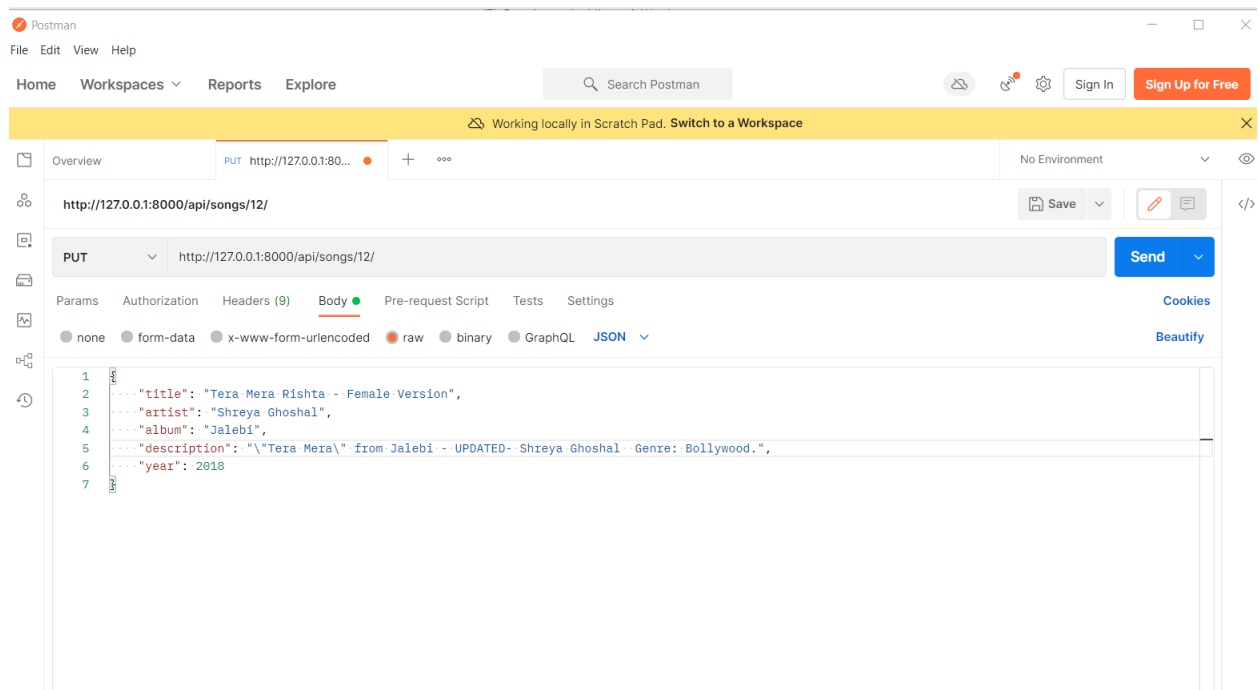
## 6. Making POST request from Postman:



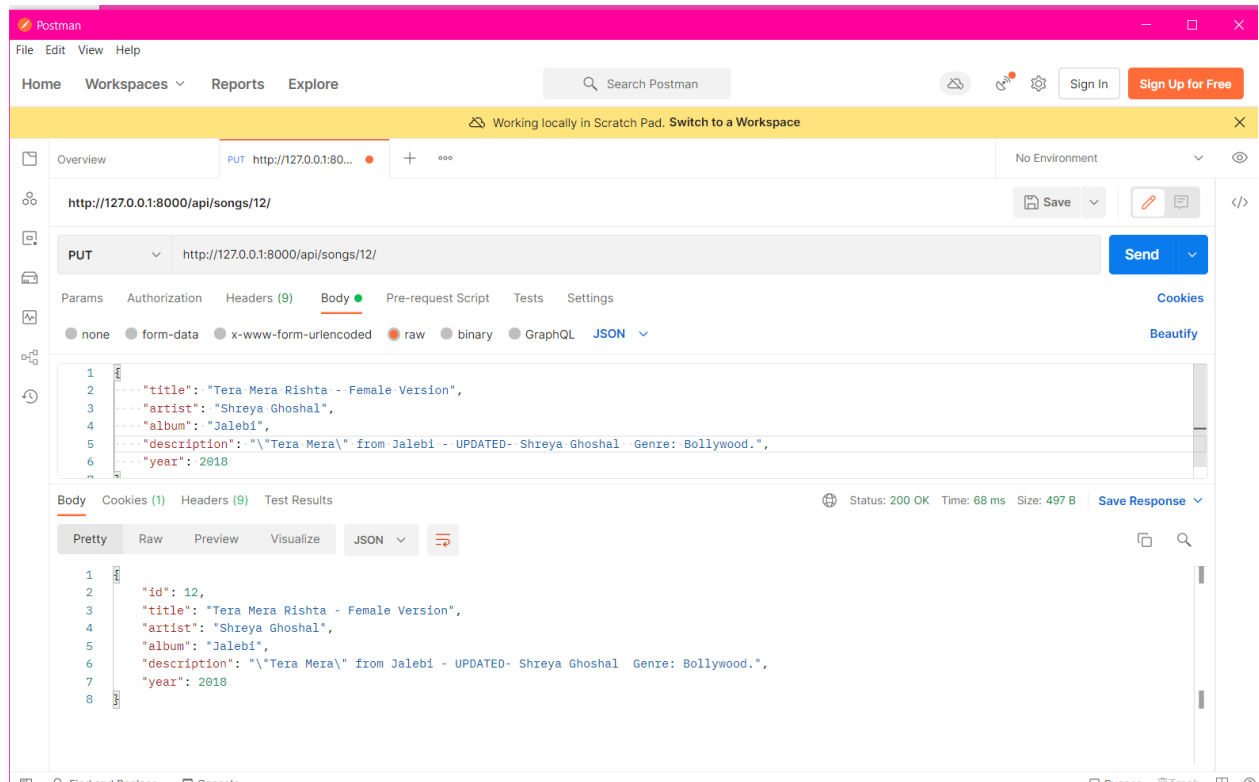
## 7. After making the POST Request in Postman(Message 201 Created):



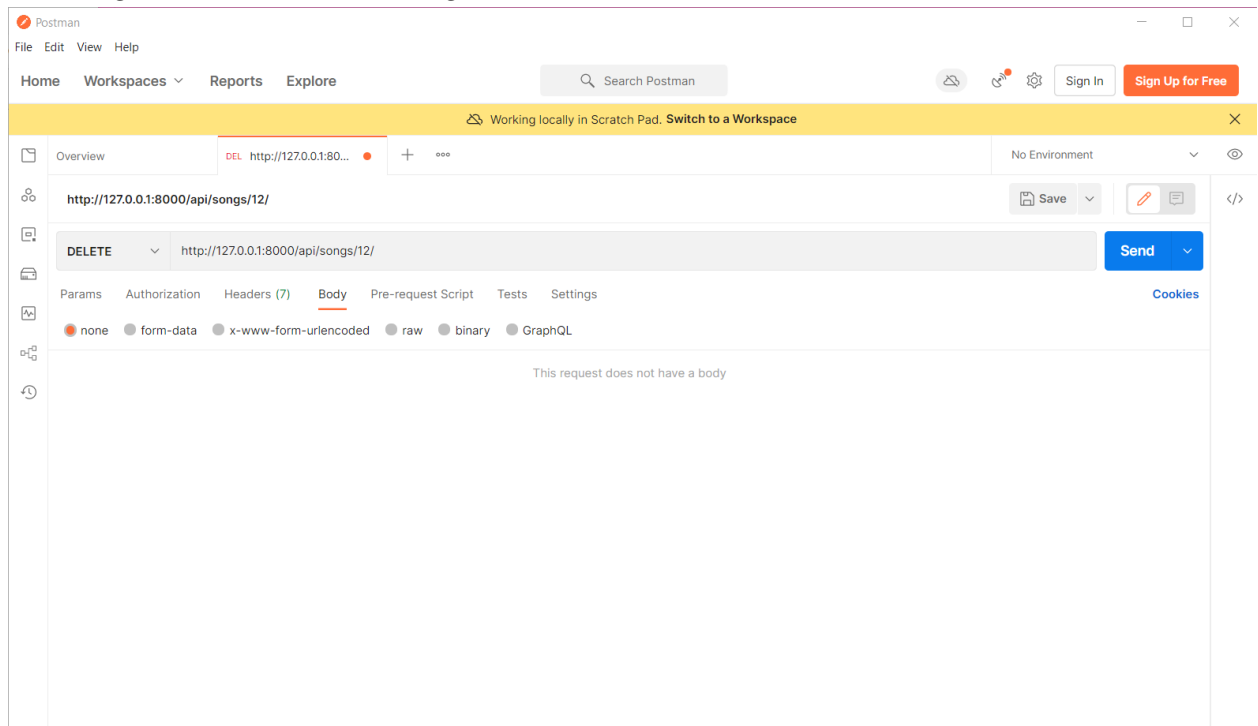
8. *Updating the value by putting id=12 in url code using PUT Method:*



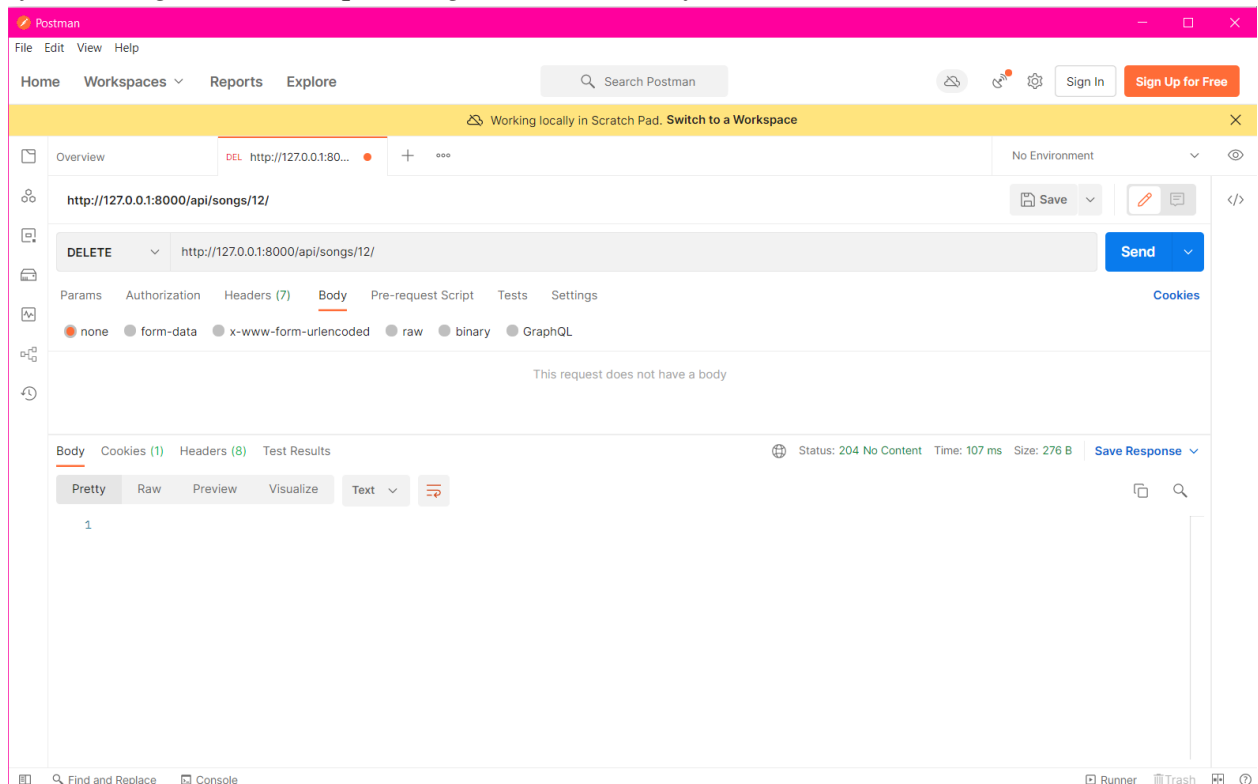
9. *After making the PUT request the title, artist and description value of id=12 has changed (Status 200 OK):*



## 10. Deleting the data with id=12 using DELETE Method:



## 11. After making DELETE Request, it gives status code of 204 No Content:



## 12. Final GET request from Postman:

The screenshot shows the Postman interface with a GET request to `http://127.0.0.1:8000/api/songs/`. The response is a JSON array of 11 song objects, each containing details like id, title, artist, album, description, and year. The status is 200 OK, and the response is displayed in the Pretty view.

```
1 {
2   {
3     "id": 1,
4     "title": "Pal",
5     "artist": "Shreya Ghoshal, Arijit Singh",
6     "album": "Jalebi",
7     "description": "\"Pal\" from Jalebi - Arijit Singh, Shreya Ghoshal  Genre: Bollywood.",
8     "year": 2018
9   },
10  {
11    "id": 2,
12    "title": "Agar Tum Saath Ho",
13    "artist": "Alka Yagnik, Arijit Singh",
14    "album": "Tanasha",
15    "description": "\"Agar Tum Saath Ho\" from Tanasha by Alka Yagnik, Arijit Singh. Released: 2015. Genre: Bollywood.",
16    "year": 2015
17  },
18  {
19    "id": 3,
20    "title": "Mast Magan",
21    "artist": "Arijit Singh",
22    "album": "2 States",
23    "description": "\"Mast Magan\" from 2 States by Arijit Singh. Released: 2016. Genre: Bollywood.",
24    "year": 2016
25  },
26  {
27    "id": 4,
28    "title": "Cover Me In Sunshine",
29    "artist": "Pink, Willow Sage Hart",
30    "album": "Cover Me In Sunshine",
31    "description": "\"Cover Me In Sunshine\" from Cover Me In Sunshine by Pink, Willow Sage Hart. Released: 2021. Genre: E",
32    "year": 2021
33  },
34  {
35    "id": 5,
36    "title": "Love Story",
37    "artist": "Taylor Swift",
38    "album": "Fearless",
39    "description": "\"Love Story\" from Fearless by Taylor Swift. Released: 2008. Track 3. Genre: Country.",
40    "year": 2008
41  },
42  {
43    "id": 6,
44    "title": "Wildest Dreams",
45    "artist": "Taylor Swift",
46    "album": "Lover (Deluxe)",
47    "description": "\"Wildest Dreams\" from 1989 (Deluxe) by Taylor Swift. Released: 2014. Track 9. Genre: Pop.",
48    "year": 2014
49  },
50  {
51    "id": 7,
52    "title": "Stay",
53    "artist": "Justin Bieber, The Kid Laroi",
54    "album": "STAY - The Kid LAROI, Justin Bieber",
55    "description": "\"Stay\" by Justin Bieber, The Kid Laroi. Released: 2021. Genre: Pop.",
56    "year": 2021
57  },
58  {
59    "id": 8,
60    "title": "Hawayein",
61    "artist": "Arijit Singh , Pritam",
62    "album": "Jab Harry Met Sejal",
63    "description": "\"Hawayein \" from Jab Harry Met Sejal by Arijit Singh , Pritam. Released: 2017. Genre: Bollywood.",
64    "year": 2017
65  },
66  {
67    "id": 9,
68    "title": "Perfect (Acoustic)",
69    "artist": "Ed Sheeran",
70    "album": "Perfect (Acoustic)",
71    "description": "\"Perfect (Acoustic)\" from Perfect by Ed Sheeran (Acoustic). Released: 2017.",
72    "year": 2017
73  },
74  {
75    "id": 10,
76    "title": "Veh Kya Hua",
77    "artist": "Shreya Ghoshal",
78    "album": "Broken But Beautiful",
79    "description": "\"Veh Kya Hua\" from Broken But Beautiful by Shreya Ghoshal",
80    "year": 2018
81  },
82  {
83    "id": 11,
84    "title": "Blank Space",
85    "artist": "Taylor Swift",
86    "album": "1989",
87    "description": "\"Blank Space\" from 1989 by Taylor Swift. Released: 2014. Genre: Pop.",
88    "year": 2014
89  }
90 }
```

### 13. Final GET request from website:

Django REST framework

shreya

Api Root / Song Viewset List

## Song Viewset List

GET /api/songs/

HTTP 200 OK  
Allow: GET, POST, HEAD, OPTIONS  
Content-Type: application/json  
Vary: Accept

```
[{"id": 1, "title": "Pal", "artist": "Shreya Ghoshal, Arijit Singh", "album": "Jalebi", "description": "\"Pal\" from Jalebi - Arijit Singh, Shreya Ghoshal Genre: Bollywood.", "year": 2018}, {"id": 2, "title": "Agar Tum Saath Ho", "artist": "Alka Yagnik, Arijit Singh", "album": "Tamasha", "description": "\"Agar Tum Saath Ho\" from Tamasha by Alka Yagnik, Arijit Singh. Released: 2015. Genre: Bollywood.", "year": 2015}, {"id": 3, "title": "Mast Hagan", "artist": "Arijit Singh", "album": "2 States", "description": "\"Mast Hagan\" from 2 States by Arijit Singh. Released: 2016. Genre: Bollywood.", "year": 2016}, {"id": 4, "title": "Cover Me In Sunshine", "artist": "Pink, Willow Sage Hart", "album": "Cover Me In Sunshine", "description": "\"Cover Me In Sunshine\" from Cover Me In Sunshine by Pink, Willow Sage Hart. Released: 2021. Genre: E", "year": 2021}, {"id": 5, "title": "Love Story", "artist": "Taylor Swift", "album": "Fearless", "description": "\"Love Story\" from Fearless by Taylor Swift. Released: 2008. Track 3. Genre: Country.", "year": 2008}, {"id": 6, "title": "Wildest Dreams", "artist": "Taylor Swift", "album": "1989 (Deluxe)", "description": "\"Wildest Dreams\" from 1989 (Deluxe) by Taylor Swift. Released: 2014. Track 9. Genre: Pop.", "year": 2014}, {"id": 7, "title": "Stay", "artist": "Justin Bieber, The Kid Laroi", "album": "STAY - The Kid LAROI, Justin Bieber", "description": "\"Stay\" by Justin Bieber, The Kid Laroi. Released: 2021. Genre: Pop.", "year": 2021}, {"id": 8, "title": "Hawayein", "artist": "Arijit Singh, Pritam", "album": "Jab Harry Met Sejal", "description": "\"Hawayein\" from Jab Harry Met Sejal by Arijit Singh, Pritam. Released: 2017. Genre: Bollywood.", "year": 2017}, {"id": 9, "title": "Perfect (Acoustic)", "artist": "Ed Sheeran", "album": "Perfect (Acoustic)", "description": "\"Perfect (Acoustic)\" from Perfect by Ed Sheeran (Acoustic). Released: 2017.", "year": 2017}, {"id": 10, "title": "Yeh Kya Hua", "artist": "Shreya Ghoshal", "album": "Broken But Beautiful", "description": "\"Yeh Kya Hua\" from Broken But Beautiful by Shreya Ghoshal", "year": 2018}, {"id": 11, "title": "Blank Space", "artist": "Taylor Swift", "album": "1989", "description": "\"Blank Space\" from 1989 by Taylor Swift. Released: 2014. Genre: Pop.", "year": 2014}]
```

Raw data HTML form

Title

Artist

Album

Description

Year

POST



*In both Figure 12 & 13 all the values are consistent and hence database is consistent.*

## **CONCLUSION:**

In this experiment, I successfully created a Web-Service using Django and performed GET/POST/PUT/DELETE operation. Get request is used to get the values from server and Post request is used to write the values in server and Put is used to update the existing values in database with a given ID and Delete is used to delete the values from server with the given ID.