



Distributed Applications – AI5109

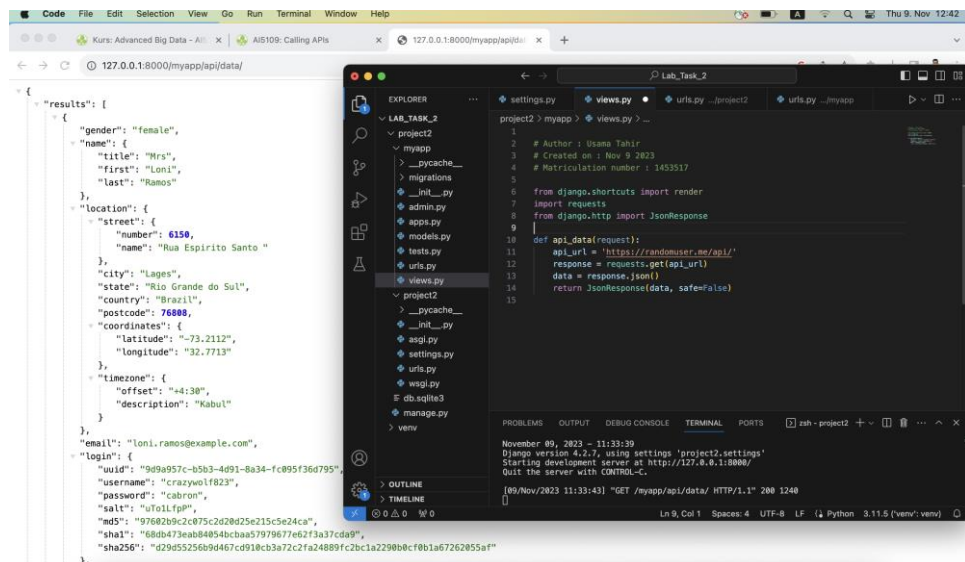
Assignment - 2

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Note: I have done this exercise using python django. You can find the source code of the exercises on the following git hub link: “<https://github.com/Usama00004/Distributed-Applications.git>”

## Front end layout

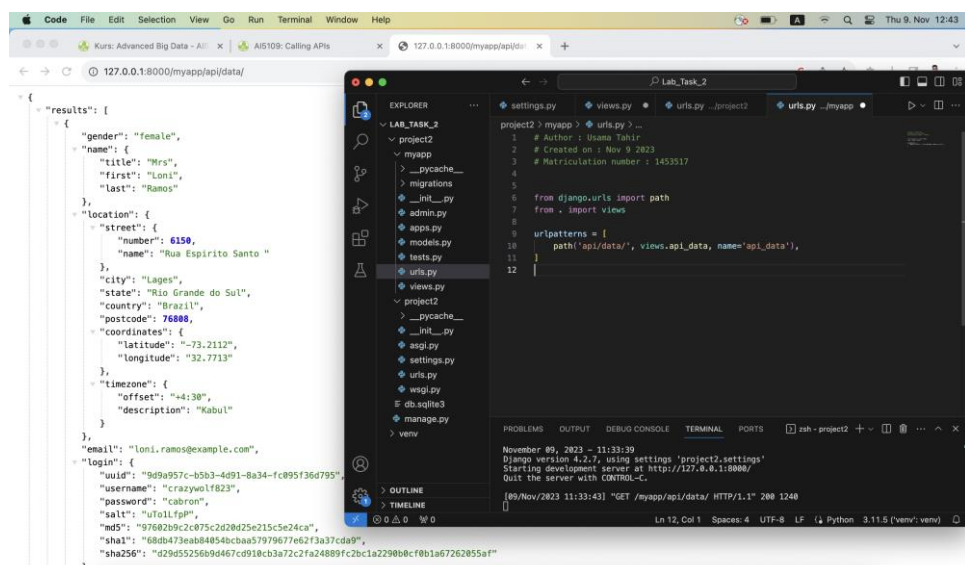


The screenshot shows a web browser on the left displaying a JSON response from a REST API. The JSON object contains user information, location details, and login credentials. On the right, a VS Code editor shows the Django code for the 'views.py' file. The code defines a view function 'api\_data' that returns a JSON response with random user data. The terminal at the bottom shows the Django development server running on port 1248.

```
{
  "results": [
    {
      "gender": "female",
      "name": {
        "title": "Mrs",
        "first": "Loni",
        "last": "Ramos"
      },
      "location": {
        "street": {
          "number": 6150,
          "name": "Rua Espirito Santo "
        },
        "city": "Lages",
        "state": "Rio Grande do Sul",
        "country": "Brazil",
        "postcode": 76888,
        "coordinates": {
          "latitude": "-73.2112",
          "longitude": "32.7713"
        },
        "timezone": {
          "offset": "+4:30",
          "description": "Kabul"
        }
      },
      "email": "loni.ramos@example.com",
      "login": {
        "uid": "9d9a957c-b5b3-4d91-8a34-fc895f36d795",
        "username": "crazywolf823",
        "password": "cabron",
        "salt": "utollfip",
        "md5": "97682b9c2c875c2d28d25e215c5e24ca",
        "sha1": "68db473eab84854bcbaa57979677e62f3a37cda9",
        "sha256": "d29d55256b9d467cd918cb3a72c2fa24889fc2bc1a2290b0cf0b1a67262055af"
      }
    }
  ]
}
```

```
1
2 # Author : Usama Tahir
3 # Created on : Nov 9 2023
4 # Matriculation number : 1453517
5
6 from django.shortcuts import render
7 import requests
8 from django.http import JsonResponse
9
10 def api_data(request):
11     api_url = "https://randomuser.me/api/"
12     response = requests.get(api_url)
13     data = response.json()
14     return JsonResponse(data, safe=False)
15
```

## Urls.py



The screenshot shows a web browser on the left displaying a JSON response from a REST API. The JSON object contains user information, location details, and login credentials. On the right, a VS Code editor shows the Django code for the 'urls.py' file. The code defines a URL pattern for the 'api\_data' view. The terminal at the bottom shows the Django development server running on port 1248.

```
{
  "results": [
    {
      "gender": "female",
      "name": {
        "title": "Mrs",
        "first": "Loni",
        "last": "Ramos"
      },
      "location": {
        "street": {
          "number": 6150,
          "name": "Rua Espirito Santo "
        },
        "city": "Lages",
        "state": "Rio Grande do Sul",
        "country": "Brazil",
        "postcode": 76888,
        "coordinates": {
          "latitude": "-73.2112",
          "longitude": "32.7713"
        },
        "timezone": {
          "offset": "+4:30",
          "description": "Kabul"
        }
      },
      "email": "loni.ramos@example.com",
      "login": {
        "uid": "9d9a957c-b5b3-4d91-8a34-fc895f36d795",
        "username": "crazywolf823",
        "password": "cabron",
        "salt": "utollfip",
        "md5": "97682b9c2c875c2d28d25e215c5e24ca",
        "sha1": "68db473eab84854bcbaa57979677e62f3a37cda9",
        "sha256": "d29d55256b9d467cd918cb3a72c2fa24889fc2bc1a2290b0cf0b1a67262055af"
      }
    }
  ]
}
```

```
1 # Author : Usama Tahir
2 # Created on : Nov 9 2023
3 # Matriculation number : 1453517
4
5
6 from django.urls import path
7 from . import views
8
9 urlpatterns = [
10     path('api/data/', views.api_data, name='api_data'),
11 ]
12
```