SOCIAL NETWORK API PROJECT OVERVIEW

The task with building a social networking API with the following key functionalities:

- 1. User Login/Signup
- 2. Search Users by Email or Name
- 3. Send/Accept/Reject Friend Requests
- 4. List Friends
- 5. List Pending Friend Requests

Additionally, the project must be containerized using Docker, include a Postman collection for API testing, and be shared on GitHub with appropriate documentation.

IMPLEMENTATION OF PROJECT:

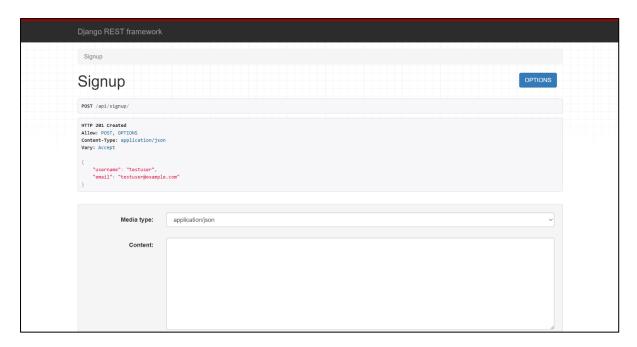
- 1. Set Up the Virtual Environment
- 2. Install Django and Django Rest Framework
- 3. Start a New Django Project
- 4. Create a Django App
- 5. Configure the Django Project
- 6. Create User Model and Authentication
 - a. models.py (In the core app)
 - b. serializers.py (In the core app)
 - c. views.py (In the core app)
- 7. URLs Configuration
 - a. urls.py (In the core app)
 - b. urls.py (In the social_network project)
- 8. Migrate and Run the Server
- 9. Test the API Endpoints
 - a. Signup Endpoint:

```
URL: http://127.0.0.1:8000/api/signup/
Method: POST
Body (JSON)

{
"username": "testuser",
"email": "testuser@example.com",
```

```
"password": "password@0123"
                     }
        b. Login Endpoint:
                     URL: http://127.0.0.1:8000/api/login/
                     Method: POST
                     Body (JSON)
                      "username": "testuser",
                      "password": "password@0123"
                     }
10. Push the Code to GitHub
            # Initialize the git repository (if not already done)
            git init
            # Add all files
            git add.
            # Commit the changes
            git commit -m "Initial commit: Setup Django project with basic authentication"
            # Add the GitHub repository as a remote
            git remote add origin https://github.com/AkashBabu1712/social-network-apl
            .git
            # Push the code to GitHub
            git push -u origin master
```

SIGN UP TEST CASE



LOGIN TEST CASE

