**Django Chat Application Documentation**

**Setup:**

1. Create a project folder

2. Create a venv [command: python -m venv envi]

3. Activate the venv [command: source envi/Scripts/activate]

4. install packages

[command: pip install django djangorestframework djangorestframework-simplejwt daphne channels psycopg2] (upgrade pip if necessary)

5. Create a django project [command: django-admin startproject chatApp .]

6. Install PostgresSQL

A] Superuser: postgres

B] Password: 12345

C] Search for pgAdmin 4 for the dashboard.

D] create a database called ‘chatdb’

**In settings.py:**

1. Add following in INSTALLED\_APPS:

[

'daphne',

'channels',

 'rest\_framework',

 'rest\_framework\_simplejwt',

 'rest\_framework.authtoken',

  'rest\_framework\_simplejwt.token\_blacklist',

]

2. Add following code in settings.py,

Code:  
REST\_FRAMEWORK = {

'DEFAULT\_AUTHENTICATION\_CLASSES': [

'rest\_framework\_simplejwt.authentication.JWTAuthentication'

]

}

SIMPLE\_JWT = {

'ACCESS\_TOKEN\_LIFETIME': timedelta(minutes=60),

'REFRESH\_TOKEN\_LIFETIME': timedelta(days=1),

'ROTATE\_REFRESH\_TOKENS': False,

'BLACKLIST\_AFTER\_ROTATION': True,

'UPDATE\_LAST\_LOGIN': False,

'ALGORITHM': 'HS256',

'SIGNING\_KEY': 'your-secret-key', # Use env variable in production

'VERIFYING\_KEY': None,

'AUDIENCE': None,

'ISSUER': None,

'AUTH\_HEADER\_TYPES': ('Bearer',),

'AUTH\_HEADER\_NAME': 'HTTP\_AUTHORIZATION',

'USER\_ID\_FIELD': 'id',

'USER\_ID\_CLAIM': 'user\_id',

}

CHANNEL\_LAYERS = { "default": { "BACKEND": "channels.layers.InMemoryChannelLayer", }, }

ASGI\_APPLICATION = "chatApp.routing.application"

DATABASES = {

    'default': {

        'ENGINE': 'django.db.backends.postgresql\_psycopg2',

        'NAME': 'chatdb',  # Change this to your actual database name

        'USER': 'postgres',  # Default PostgreSQL user

        'PASSWORD': '12345',  # Use the password you set

        'HOST': 'localhost',  # Keep this unless using a remote server

        'PORT': '5432',  # Default PostgreSQL port

    }

}