

# Source Code of App: chat

## admin.py

```
from django.contrib import admin

# Register your models here.
```

## apps.py

```
from django.apps import AppConfig

class ChatConfig(AppConfig):
    default_auto_field = "django.db.models.BigAutoField"
    name = "chat"
```

## consumers.py

```
import json
from channels.generic.websocket import AsyncWebsocketConsumer

class ChatConsumer(AsyncWebsocketConsumer):
    async def connect(self):
        self.roomGroupName = "group_chat_gfg"
        await self.channel_layer.group_add(
            self.roomGroupName ,
            self.channel_name
        )
        await self.accept()
    async def disconnect(self , close_code):
        await self.channel.name.group_discard(
            self.roomGroupName ,
            self.channel_name
        )
    async def receive(self, text_data):
        text_data_json = json.loads(text_data)
        message = text_data_json["message"]
        username = text_data_json["username"]
        await self.channel_layer.group_send(
            self.roomGroupName,{
                "type" : "sendMessage" ,
                "message" : message ,
                "username" : username ,
            })
    async def sendMessage(self , event) :
        message = event["message"]
        username = event["username"]
        await self.send(text_data = json.dumps({"message":message , "username":username}))
```

## models.py

```
from django.db import models

# Create your models here.
```

## routing.py

```
from django.urls import path , include
from chat.consumers import ChatConsumer

# Here, "" is routing to the URL ChatConsumer which
# will handle the chat functionality.
websocket_urlpatterns = [
    path("", ChatConsumer.as_asgi()) ,
]
```

## tests.py

```
from django.test import TestCase

# Create your tests here.
```

## urls.py

```
from django.urls import path, include
from chat import views as chat_views
from django.contrib.auth.views import LoginView, LogoutView

appname = "chat"

urlpatterns = [
    path("chat/", chat_views.chatPage, name="chat-page"),
]

```

## views.py

```
from django.shortcuts import render, redirect

# Create your views here.
def chatPage(request, *args, **kwargs):
    if not request.user.is_authenticated:
        return redirect("login-user")
    context = {}
    return render(request, "chatPage.html", context)

```

## \_\_init\_\_.py

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## chatPage.html

Send Message