Testing
LAW Assignment 3 : *Asynchronous with Message Queue*

Files

Chat Application

- Server : server.js
- Client : public/js/main.js
- Run On : http://127.0.0.1:3000
- Protocol : Webstomp **only in client**
- Notes : In server.js only create exchange that make sure exchange exists

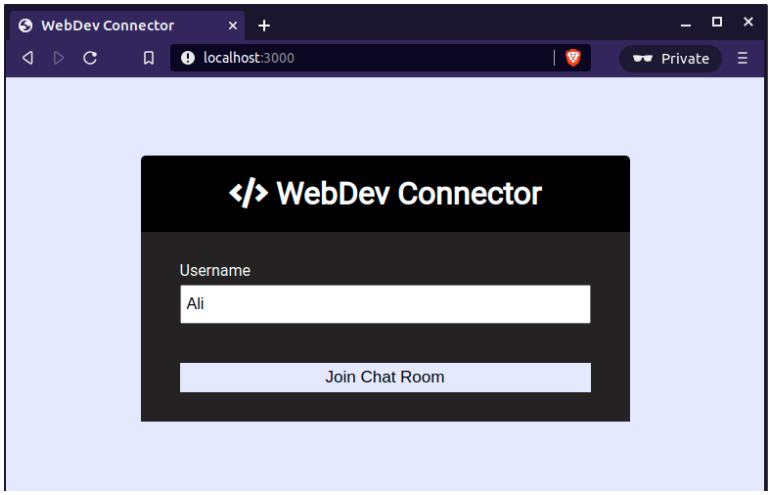
Bot Time

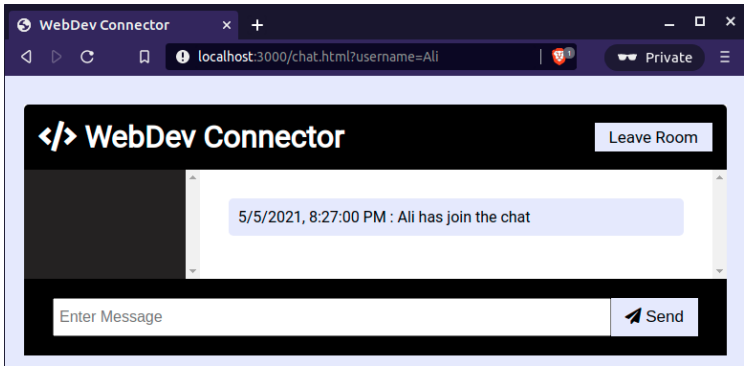
- File : mq/sender.py

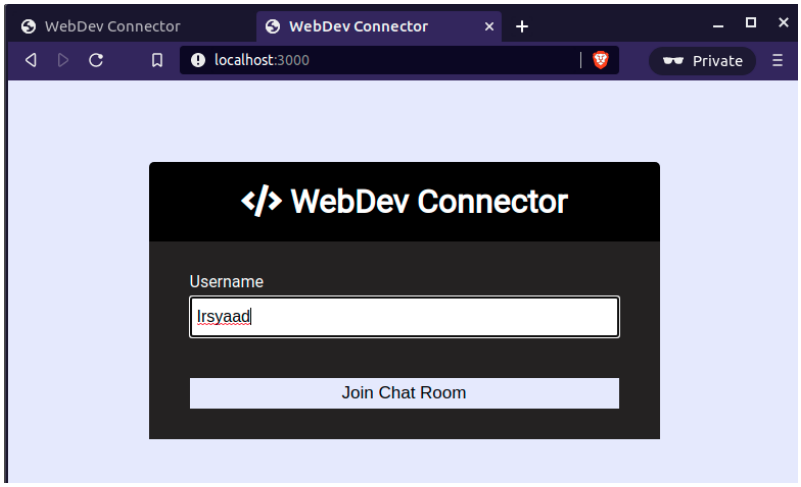
Screenshot Testing

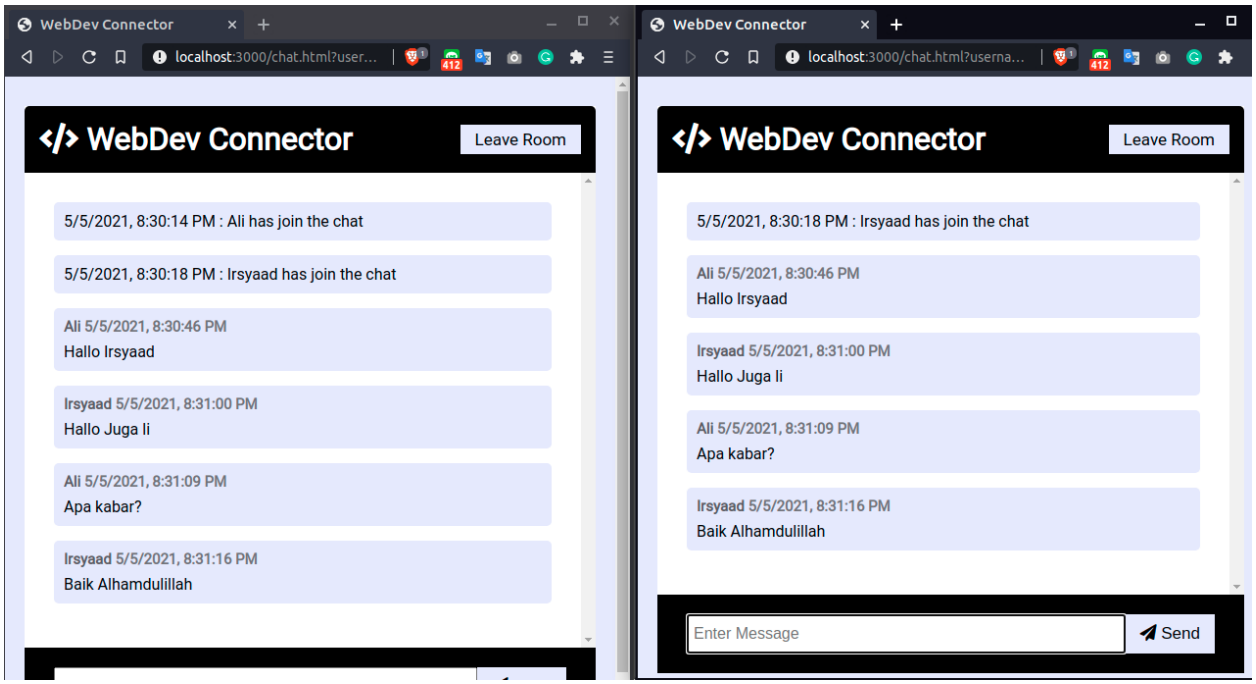
Chat Application

```
zwit@zb:~/.../wsmqstomp$ npm run start

> wsmqstomp@1.0.0 start /home/zwit/Documents/Kuliah/LAW/node/wsmqstomp
> node server

Server running on port 3000
```




WebDev Connector
localhost:3000/chat.html?username=Ali
Private
WebDev Connector
Leave Room
5/5/2021, 8:27:00 PM : Ali has join the chat
Enter Message
Send


WebDev Connector
WebDev Connector
localhost:3000
Private
WebDev Connector
Username
Irsyaad
Join Chat Room


WebDev Connector
localhost:3000/chat.html?user...
WebDev Connector
Leave Room
5/5/2021, 8:30:14 PM : Ali has join the chat
5/5/2021, 8:30:18 PM : Irsyaad has join the chat
Ali 5/5/2021, 8:30:46 PM
Hallo Irsyaad
Irsyaad 5/5/2021, 8:31:00 PM
Hallo Juga Ii
Ali 5/5/2021, 8:31:09 PM
Apa kabar?
Irsyaad 5/5/2021, 8:31:16 PM
Baik Alhamdulillah
WebDev Connector
localhost:3000/chat.html?userna...
WebDev Connector
Leave Room
5/5/2021, 8:30:18 PM : Irsyaad has join the chat
Ali 5/5/2021, 8:30:46 PM
Hallo Irsyaad
Irsyaad 5/5/2021, 8:31:00 PM
Hallo Juga Ii
Ali 5/5/2021, 8:31:09 PM
Apa kabar?
Irsyaad 5/5/2021, 8:31:16 PM
Baik Alhamdulillah
Enter Message
Send

Bot Time

```
zwit@zb: ~/.../wsmqstomp 64x11
^CInterrupted
zwit@zb:~/.../wsmqstomp$ python3 mq/consumer.py
 [*] Waiting for messages. To exit press CTRL+C
Received : 2021-05-05 20:07:05
Received : 2021-05-05 20:08:05
Received : 2021-05-05 20:09:05
Received : 2021-05-05 20:10:05
Received : 2021-05-05 20:11:05
Received : 2021-05-05 20:12:05
Received : 2021-05-05 20:13:05
Received : 2021-05-05 20:14:05
```

```
zwit@zb: ~/.../wsmqstomp 64x8
zwit@zb:~/.../wsmqstomp$ python3 mq/sender.py
Sended : 2021-05-05 20:07:05
Sended : 2021-05-05 20:08:05
Sended : 2021-05-05 20:09:05
Sended : 2021-05-05 20:10:05
Sended : 2021-05-05 20:11:05
Sended : 2021-05-05 20:12:05
Sended : 2021-05-05 20:13:05
```

```python
import pika
import time
from datetime import datetime


connection = pika.BlockingConnection(pika.ConnectionParameters(host="localhost"))
channel = connection.channel()

channel.queue_declare(queue="time")
while True:
    message = str(datetime.now())[:-7]
    channel.basic_publish(exchange="", routing_key="time", body=str(message))
    print(f"Sended : {message}")
    time.sleep(60)

connection.close()
```

```python
#!/usr/bin/env python
import pika
import sys
import os


def main():
    connection = pika.BlockingConnection(pika.ConnectionParameters(host="localhost"))
    channel = connection.channel()

    channel.queue_declare(queue="time")

    def callback(ch, method, properties, body):
        body = body.decode("UTF-8")
        print(f"Received : {body}")

    channel.basic_qos(prefetch_count=1)
    channel.basic_consume(queue="time", on_message_callback=callback, auto_ack=True)

    print(" [*] Waiting for messages. To exit press CTRL+C")
    channel.start_consuming()


if __name__ == "__main__":
    try:
        main()
    except KeyboardInterrupt:
        print("Interrupted")
        try:
            sys.exit(0)
        except SystemExit:
            os._exit(0)
```