Assignment 3 LAW

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Prequisites:

- Go
- Setup RabbitMQ to enable STOMP
  It can be done by using this command:
  `rabbitmq-plugins enable rabbitmq_web_stomp`

Explanation:

This assignment consists of 2 files, index.html and main.go. Go program needs to be run first to declare a new exchange and at the same time start publishing messages on a 60 seconds interval. After that, the client on index.html will subscribe to the same exchange and display all the messages received. Clients will also be able to send other client messages, but first, in order to do so they have to declare a username to use. The payload exchanged between clients and the CLI is a simple JSON that consists of fields client(username the client uses) and message(message submitted). The client will then parse the JSON and add it to the document html.

Screenshots:

Declare username

Join chat | Username to use

Start sending chats

Anditama: Hello

helloo guys

Send

Other client join and start sending chat

Anditama: Hello
Budi: Halo bro
Budi: Apa kabar

Send

Chat between 2 browsers

Anditama: Halo
BOT: Current time is Wednesday, 05-May-21 11:28:53 +07
Budi: Halo salam kenal
Budi: Nama saya budi
Anditama: Hai

Hai budi

Send

Budi: Halo salam kenal
Budi: Nama saya budi
Anditama: Hai

Send

Bot sending message to chat
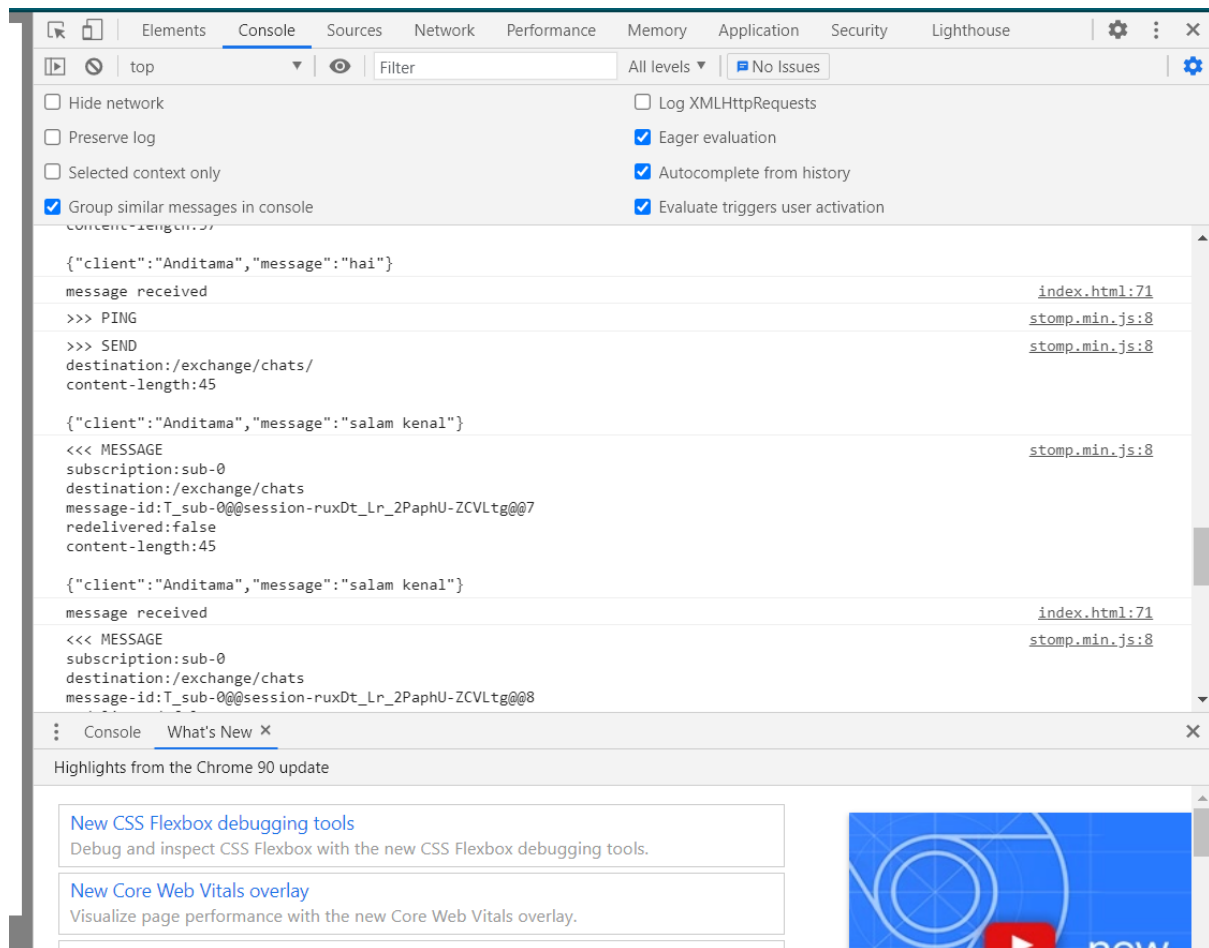
Anditama: Hello
Budi: Halo bro
Budi: Apa kabar
BOT: Current time is Saturday, 01-May-21 13:29:57 +07

Send

CLI logging for messages received

```
C:\Users\Asus\Documents\Work\LAW\Tugas2\work>go run main.go
2021/05/01 13:28:57 [*] Waiting for logs. To exit press CTRL+C
Tick at 2021-05-01 13:29:57.2997876 +0700 +07 m=+68.124341201
2021/05/01 13:29:57  [x] {"message":"Current time is Saturday, 01-May-21 13:29:57 +07","client":"BOT"}
Tick at 2021-05-01 13:30:57.302582 +0700 +07 m=+128.127135601
2021/05/01 13:30:57  [x] {"message":"Current time is Saturday, 01-May-21 13:30:57 +07","client":"BOT"}
2021/05/01 13:30:58  [x] {"client":"Anditama","message":"hai"}
2021/05/01 13:31:02  [x] {"client":"Anditama","message":"salam kenal"}
2021/05/01 13:31:07  [x] {"client":"Budi","message":"salam kenal"}
2021/05/01 13:31:09  [x] {"client":"Budi","message":"saya budi"}
```

Browser logging