UV-COEUR RES209 : C2W communication protocol

Groupe 22
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Introduction

Protocol main characteristics

- Texted-based
- Persistence of the messaging transmission
- UDP / TCP
- Error handling
- General message-format

Main Qualities of our protocol

- Reliability : Messaging persistency
- Scalability : General message-format
- Portability : Implements UDP/TCP

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Message format

```
TIME: <SPACE> CMD <PIPE> USER_NAME <PIPE> DATA <CRLF>
```

TIME: for requests, time at which the request was sent
for responses, time of the corresponding request

CMD: detailed further

USER_NAME: client that originated the message
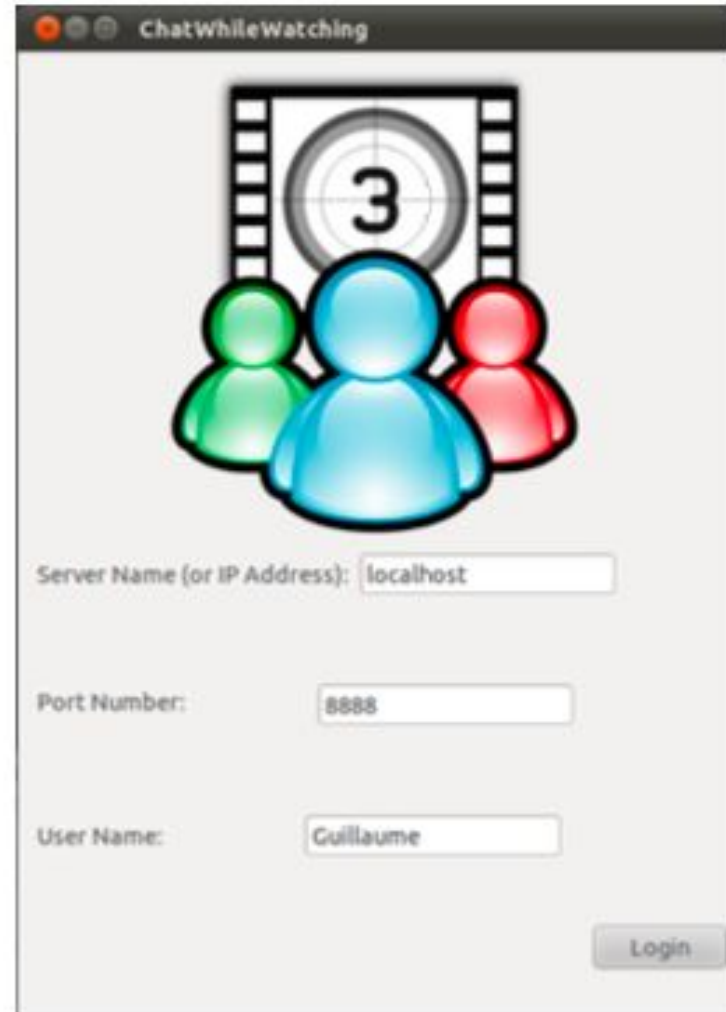
DATA: depends on the message type

Connection Window

```
CONNECTION_REQUEST

CONNECTION_GRANTED

CONNECTION_ERROR_XXXX

CONNECTION_RESPONSE_ACK
```
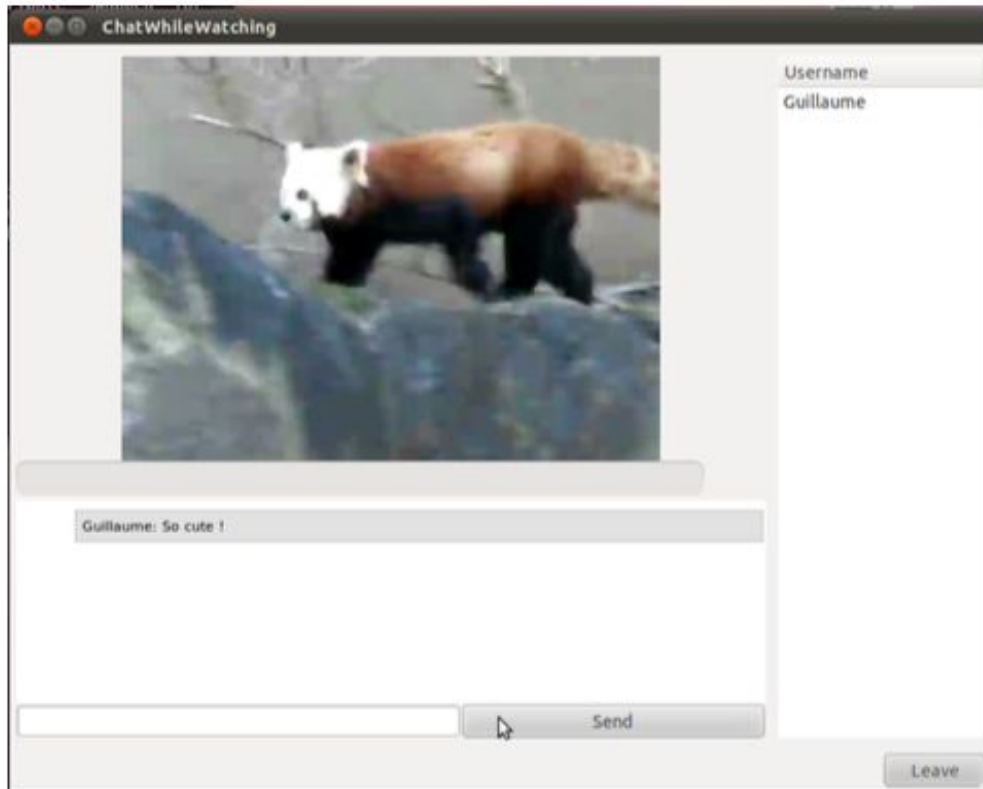
Main Room Window

USER_LIST_REQUEST

USER_LIST_RESPONSE

USER_LIST_RESPONSE_ACK

MOVIE_LIST_REQUEST

MOVIE_LIST_RESPONSE

MOVIE_LIST_RESPONSE_ACK
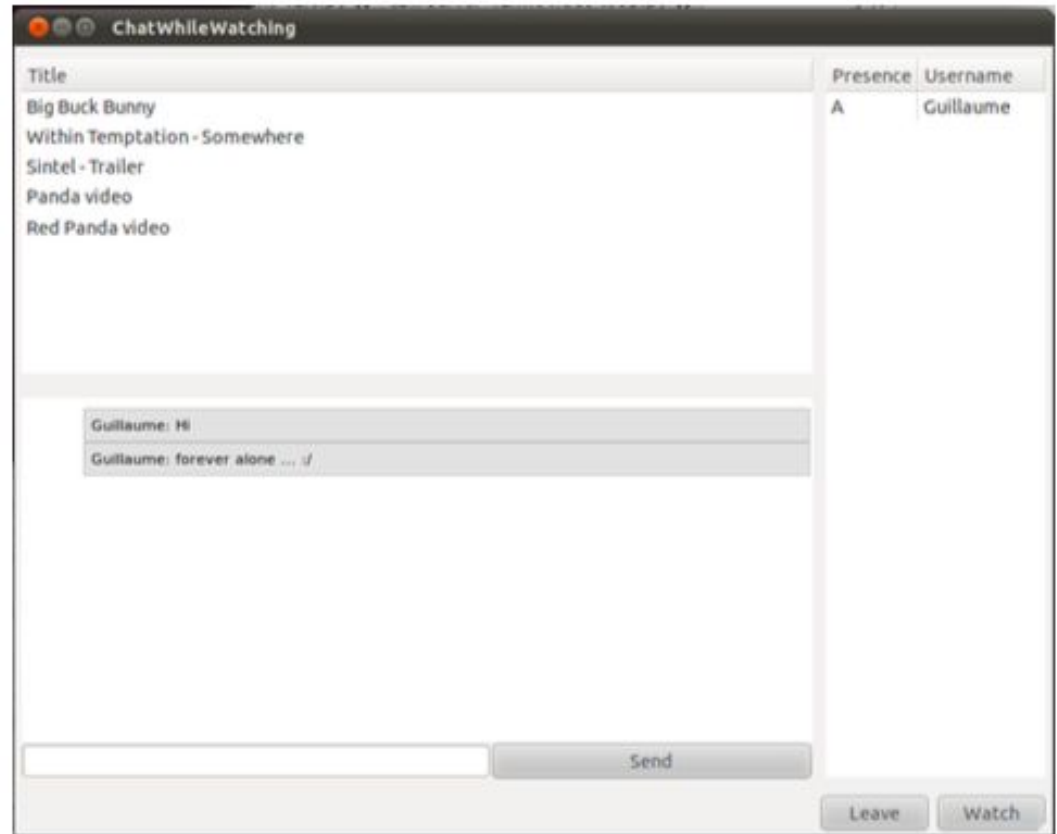
ENTER_MOVIE_REQUEST   ENTER_MOVIE_ERROR_XXXX

ENTER_MOVIE_RESPONSE_ACK   ENTER_MOVIE_GRANTED

Movie Room Window

LEAVE_SESSION_REQUEST

LEAVE_SESSION_GRANTED

LEAVE_SESSION_ERROR_X
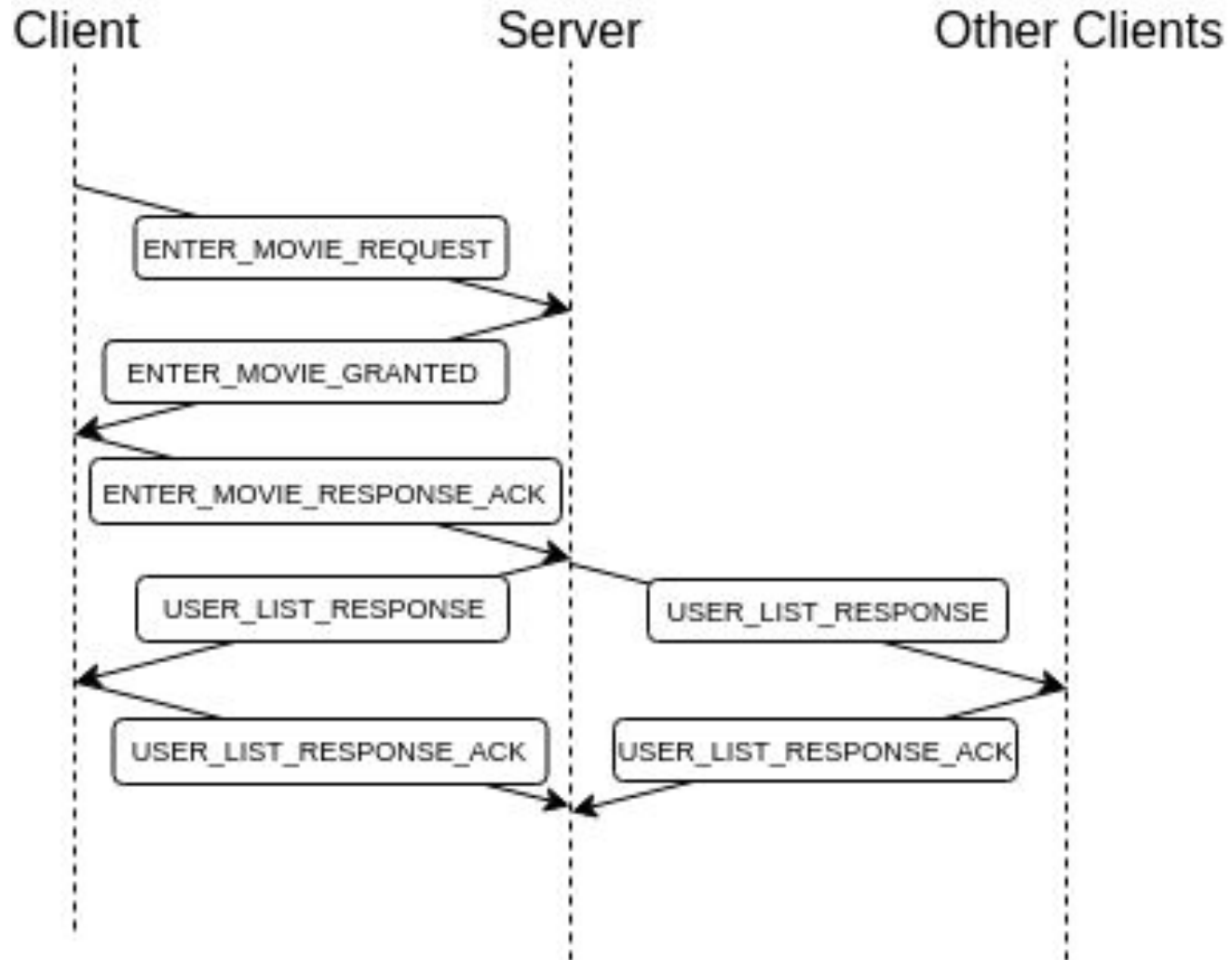
LEAVE_SESSION_RESPONSE
_ACK

SEND_MESSAGE_REQUEST   NEW_MESSAGE

NEW_MESSAGE_RESPONSE_ACK

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1) Opening a Movie Room session

2) **Sending a message**