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- Feature und Function
- 1. Authentication

Function:

- Login
- Register
- Logout
- 2. Chat Room

Function:

- Create
- Open
- Find
- 3. Chat

Function:

- Write
- Find
- Delete
- Gherkin für Feature
- 1. Login

Feature: User login

Scenario Outline: successful login

Given the user is already registered in the DB with <username> and <password>

And the given input (<username> and <password>) are correct
Then the user can successfully login with <username> and <password>

Examples:

```
| username | password |
| "Idokli22" | "Passw0rd" |
| "TestUser1" | "Passw0rd" |
```

Scenario Outline: unsuccessful login – user is not registered

Given the user with the <username> is not registered in the DB And the given input (<username> and <password>) are correct Then the user can not login with <username> and <password>

Examples:

```
| username | password |
| "Idokli22" | "Passw0rd" |
| "TestUser1" | "Passw0rd" |
```

Scenario Outline: unsuccessful login - user name or password is wrong

Given the user is already registered in the DB with <username> and <password>

And the given input (<falseusername> and <password>) are not correct Then the user can not login with <falseusername> and <password>

Examples:

```
| username | password | falseusername |
| "Idokli22" | "Passw0rd" | "Idokli" |
| "TestUser1" | "Passw0rd" | "testuser1" |
```

Scenario: User logout successfully

When User logouts from application

Then Message displays Logout successfully

2. All chat rooms view

Feature: All chat rooms view

Scenario Outline: user with existing chat rooms

Given the user is already registered in the DB with <username> and <password>

And the user (<username>) has User-Chats entities

Then after login (<username> and <password>),he should see the different chat rooms that are available to him

Examples:

```
| username | password |
| "Idokli22" | "Passw0rd" |
| "TestUser1" | "Passw0rd" |
```

Scenario Outline: user without existing chat rooms

Given the user is already registered in the DB with <username> and <password>

And the user (<username>) has no User-Chats entities

Then after login (<username> and <password>),he should not see any chat rooms available

Examples:

```
| username | password |
| "Idokli22" | "Passw0rd" |
| "TestUser1" | "Passw0rd" |
```

Scenario Outline: open a new chat

Given the user is already registered in the DB with <username> and <password>

And the user (<username>) has no User-Chats entities

When the user (with <username>) wants to open a chat room he needs to enter the <chatName> and participants.

Then a new chat room with the <chatName> should be opened for user (with <username>).

Examples:

```
| username | password | chatName |
| "Idokli22" | "Passw0rd" | "room1" |
| "TestUser1" | "Passw0rd" | "room2" |
```

3. Messaging

Feature: Send a receive messages in chat rooms

Scenario Outline: successful sending of a message

Given the user is already registered in the DB with <username1> and <password1>

And another user is already registered in the DB with <username2> and <password2>

And chat room (with name <chatName> and Admin <username1>)for both users (<username2> is open

When <username1> writes a message in <chatName> with <content> and sents it

Then the message with <content> should be shown in <chatName> for all users <username1> and <username2>.

Examples:

4. Registration

Feature: User registration

Scenario Outline: successful registration

Given the <username> is not registered in the app

And the given input (<username> and <password>) are correct

When the user tries to register with <username> and <password>

Then the user with the <username> should successful registered

Examples:

```
| username | password |
| "Idokli22" | "Passw0rd" |
| "TestUser1" | "Passw0rd" |
```

Scenario Outline: unsuccessful registration – username taken

Given the <username> is already registered in the app

And the given input (<username> and <password>) are correct

When the user tries to register with <username> and <password> Then the user should get an error message that tells him that the

<username> is taken.

Examples:

```
| username | password |
| "Idokli22" | "Passw0rd" |
| "TestUser1" | "Passw0rd" |
```

Verfeinerung der algorithmischen Funktionen

Authentication

```
1. Login
    Login(username, password)
     If username-defined
           load-username
             return OK
    return error
2. Logout
    Logout(sid)
     Destroy-sid
     Delete-sid in account
3. register
    registerUser(username, password)
     if username defined
           create user
           store user to DB
           return ok
     else
           return error
• Chat Room
1. Create
    openNewChatRoom(chatName, admin, participants)
       load-chat
       create chatroom for admin
       while participants:=participants
           create chatroom for participants
       store chat room to admin
       store chat room to participants
       return chat
2. Open
    getChatRoomsForUser(username)
       if username-defined
          return Chat list from username
       else
          return error
3.
    findChatRoomByUserAndChatName(userName, chatName)
```

load-chat list if chat list-defined

while chat:=chat list

if chatname-defined return chat

return error

Chat

```
1. Write
```

addMessageToChatRoom(from, chatName, content) load-chat room load-user if chat name-defined and chat room-defined create content load-chat room messages store messages return messages

return error

2. Find

findChatbyChatUser(username) if username-defined return chat else

return null

3. Delete

deleteChat(username, content) if username-defined if content-defined return content delete chat(username, content)