CECS 575 Assignment 1 Group 4

Fully Dressed Use Cases (1 & 2)

Use Case [UC1]: Log In

Scope: Accord chat application

Level: user goal

Primary Actor: Accord Member (user)

Stakeholders and Interests:

- Accord Member: Wants to communicate with other members in a secure, real-time manner.

- Government: The government wants the Accord platform to follow all applicable rules and regulations regarding online communications and the storage and use of user data. Furthermore, the government expects Accord to pay taxes in accordance with the tax legislation.

Preconditions: User is a registered Accord member with an authentic username and password.

Postconditions (or Success Guarantee): The user's Accord account is allowed access when they have been authenticated. Messages, friends, private servers, account details, and other features are available to users.

Main Success Scenario (or Basic Flow):

1. User opens Accord Client through any of the following:
     a. User opens Accord Application (on desktop or mobile).
     b. User browses to Accord web application through web browser.
2. User requests to login.
3. System prompts user to enter username and password.
4. User enters username and password.
5. System validates username and password.

Repeat steps 3-5 until a valid username/password combination is entered.

6. System grants user access to their account

Extensions (or Alternate Flows):

*a. The system can fail at any moment:

1. The system notifies the user that the platform is down for maintenance (or for a while) and asks them to try logging in again later.

*b. The user does not have an account with Accord:

1. The system always gives the user an opportunity to request the setup of a new account on the login screen (to be covered in a separate use case).

*c. The user already has an account, but he or she has forgotten their login credentials:

1. In the event of a lost username or password, the system always provides an option (on the login screen) for the user to request a password reset (to be discussed in a separate use case).

5a. Invalid username/password combination is provided as input:

1. If the limit number of failed login attempts is reached, the user's account is locked.
2. Otherwise, the system alerts the user towards an invalid entry.
3. The system facilitates the user to input their username and password again.

Technology and Data Variations List: Examine if unique authentication techniques, such as multi-factor authentication and biometrics, are required. (Face id, fingerprint scan, etc.).

Frequency of Occurrence: It seems to be possible that it'll be pragmatically continuous.

Open Issues:

- How many incorrect login attempts is the maximum?

Use Case [UC2]: Setup a Private Server

Scope: Accord chat application

Level: user goal

Primary Actor: Accord Member (user)

Stakeholders and Interests:

- Accord Member: Wants to communicate with other members in a secure, real-time manner.
- Government: The government wants the Accord platform to follow all applicable rules and regulations regarding online communications and the storage and use of user data. Furthermore, the government expects Accord to pay taxes in accordance with the tax legislation.

Preconditions: Accord Member (user) is logged in.

Postconditions (or Success Guarantee):

- Private Server is created (and appropriately named, if applicable).
- Invite code is generated and made available to share with another Accord Member (user).

Main Success Scenario (or Basic Flow):

1. User requests to create new Private Server.
2. System prompts user to provide name of new Private Server.
3. User enters server name.
4. System validates server name.

User repeats steps 3 and 4 until a valid server name is entered.

5. System allocates resources and creates server.

6. System indicates successful Private Server creation.
7. System presents Private Server invite code to user.

Extensions (or Alternate Flows):

*a. The user can cancel the setup of a private server at any time:

1. System cancels the server creation.
   a. System discards data related to new server request.
2. Client reverts to previous screen.

*b. The system can fail at any time:

1. System cancels server creation.
2. Client reverts to previous screen.

3a. Invalid Server Name provided (duplicate server, illegal character, name length violation):

1. System displays appropriate error message.
2. System prompts user to enter valid server name.

Special Requirements: TBD

Frequency of Occurrence: It seems to be possible that it'll be pragmatically continuous.

Open Issues:

- What laws and regulations govern the storage and use of user data?
- What are the latency and reliability requirements for the system?

Brief/Casual Use Cases (3 & 4)

Use Case [UC3]: Add Friend

Preconditions: Accord Member (user) is logged in. User knows the unique username of the user to add.

Main Success Scenario (or Basic Flow):

1. User navigates to the profile to the secondary user.
2. User requests to send a friend request to the secondary user.
3. System notifies second user that (primary) user has sent friend request.
4. Secondary user accepts friend request.
5. System notifies (primary) user of acceptance.
6. System enables friend features between primary and secondary user.

Use Case UC4: Send Message

Preconditions: Accord Member (user) is logged in. User knows the unique username of the user to message.

Main Success Scenario (or Basic Flow):

1. User navigates to the profile of secondary user.
2. User requests to send a message to the secondary user.
3. System prompts user to enter message text.
4. User enters message text.
5. User requests to transmit message.
6. System transmits message to secondary user.