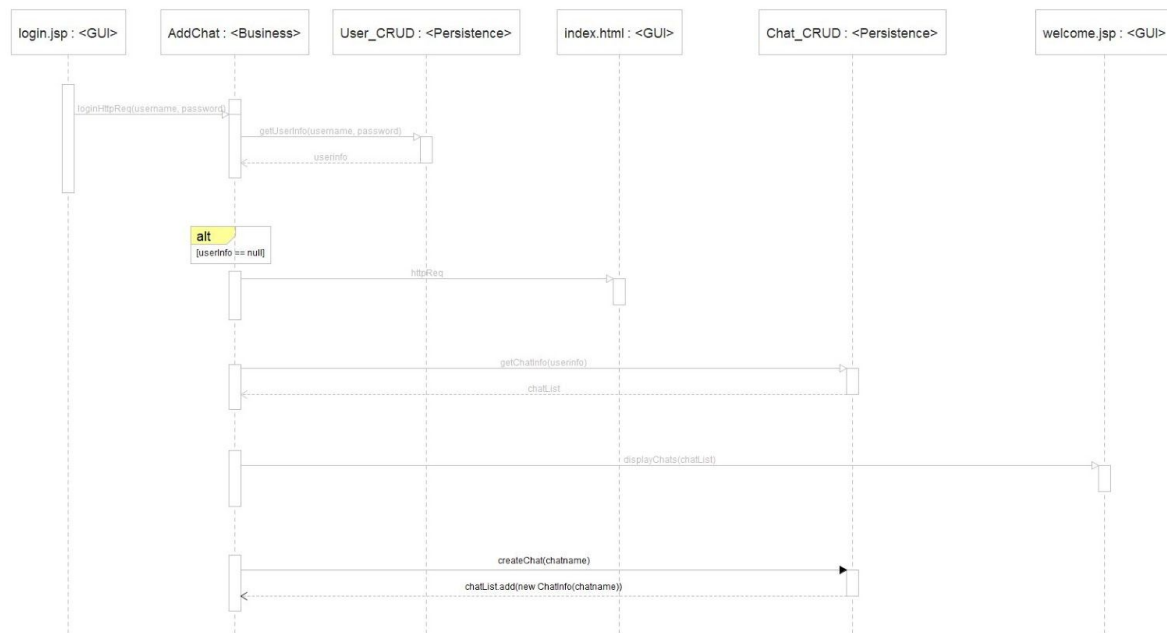


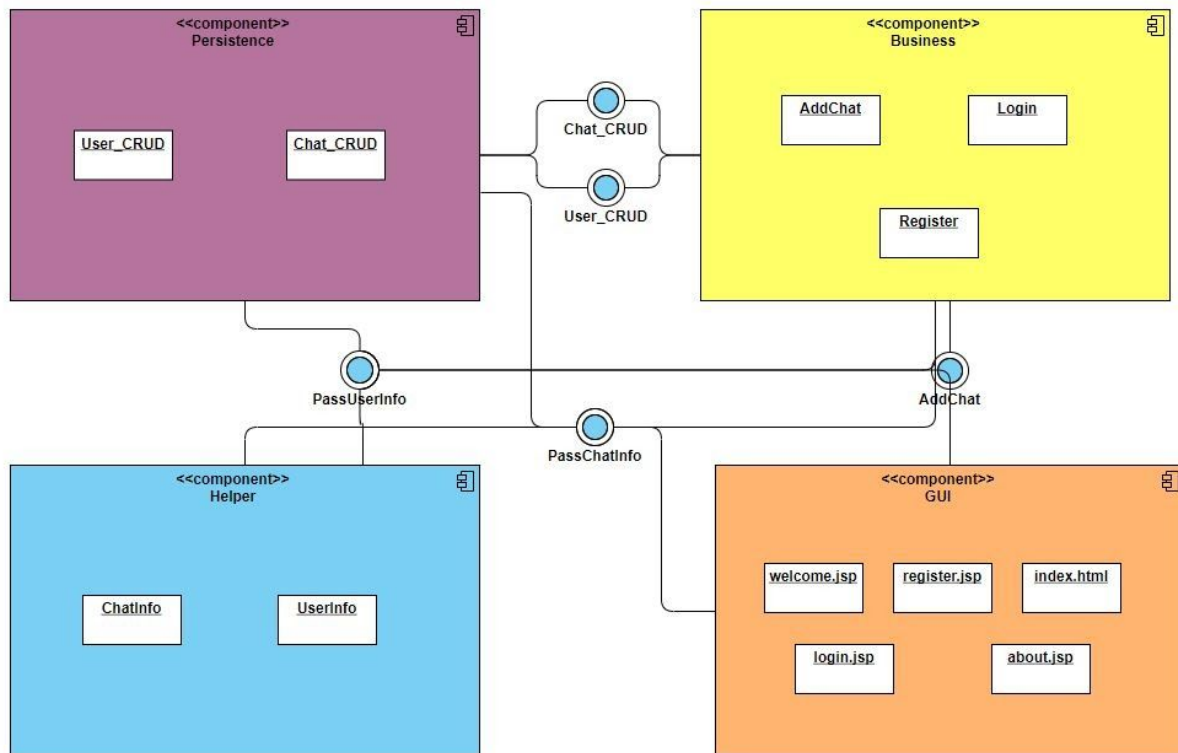
## Sequence Diagram:



The following steps need to be taken:

- Users must login to the system by providing their username and password (loginHttpReq).
- AddChat object will capture the request, and it will call the “read” method from the User\_CRUD.
- User\_CRUD bundles information into a UserInfo object based on the username and password submitted.
- If no user with the provided username and password exist then they will be redirected back to the index.html page.
- Otherwise the AddChat object will get a list of all of the user’s chats by calling the getChatInfo(userInfo) method.
- Each chat that the user is in will be displayed on their screen, and users will also have the option to add a chat.
- Users can create a chat (createChat(chatname)) and that chat will be added to the list of the user’s chats.

## Component Diagram:



There are 4 main components for this component diagram:

1. Persistence layer that includes all of the classes which communicate with the MySQL database. This layer handles the CRUD of Users and Chats.
2. Business layer that includes classes that handle actions being done within the application. For this diagram those classes are Login, Register, and AddChat.
3. GUI includes the html files and jsps for the web application. This is what represents the data to the user.
4. Helper layer includes all of the classes used for passing data between components.