**Project Pitch**
CS5500 Foundations of Software Engineering – Spring 2021

Covey.Town is an open-source virtual meeting application. It currently has a single room and allows any user to join the room by entering name. This causes threat to security and privacy. To overcome this issue, secured authentication can be enabled for the users where the users can register to the application and will be authorized to access Covey Room services only if they are registered.

Currently, there is no provision for the users to communicate among themselves within a room. Therefore, our idea is to implement a chat feature wherein players can communicate with each other either via private chat or by creating an open group chat.  Text chat and direct messaging enhances the application by letting the users send messages to each other during the meeting.

In addition to this, the users can host events to which other users can subscribe to. The subscribed users will get instant notification regarding the event updates.

The additional features will build an interactive environment for the users on top of the video calling facility, thus improving the user experience. We find that authentication and chat are two important features that video chatting application should have. Along with that, this project would give us an opportunity to implement both the REST and Web Socket Architecture with databases into the application.

| Epic | User story | Acceptance Criteria |
|---|---|---|
| As a user, I need to access the meeting room behind a secure login so that the uninvited guests are out of the meeting space. | As a user, I need to register myself with the application so that to securely access the meetings. | Ensure the user can:<br><br>1) Register to the application by providing user details.<br><br>2) Update the user details in their home page.<br><br>3) Persist the details into the database.<br><br>4) Be able to perform CRUD operations on the user. |
| | As a user, I need to login to the application so that I can access the history of my meetings. | Ensure the user can:<br><br>1) Login to the application by providing username and password.<br><br>2) View the history of meetings of the user. |

| | | |
|---|---|---|
| As a user I need to be able to communicate with other users in the meeting through direct messaging. | As a user I need to be able to send or receive messages to/from all other users in the meeting. | Ensure the user can: <br><br> 1) Send or receive messages from other users in the chat box. |
| | As a user I need to be able to send or receive messages to/from certain number of users in the meeting. | Ensure the user can: <br><br> 1) Send or receive messages from certain number of users privately in the chat box. <br><br> 2) Be able to initiate a private conversation when user comes across other users in the room map. |
| **(Optional)** As a user, I need to be able to host an event for other users. | As a user, I need to be able to create an event and let other users subscribe and join the event. | Ensure the user can: <br><br> 1) Create an event by providing event details. <br><br> 2) Send alerts to users subscribed to the event. |
| | As a user, I need to be able to join the event of other users. | Ensure the user can: <br><br> 1) View list of events happening in the meeting. <br><br> 2) Subscribe and get notified about the event. <br><br> 3) Unsubscribe from the event. |