

Client Web Application User Stories

User Story	Acceptance Criteria
As a developer, I want to add alternate text to images and videos so users with disabilities can still use and access the application properly.	Given: The user has poor or no vision. When: The user is successfully logged into the system. Then: The user can understand the website fully with the alternate text to the media.
As a developer, I want to require users to enter credentials to validate themselves before using the system.	Given: The user enters their credentials. When: The database checks and validates said credentials. Then: The user will be logged in and can access the system.
As a user, I want to alter the floor map so that the client can easily switch between rooms.	Given: The user uploads a file with the floor map. When: The client verifies the file type and applies the file to the system. Then: The user interface will display the new floor map.
As a developer, I want to make the interactive elements easy to find and use so users with disabilities are able to successfully use the application.	Given: The user is logged into the system When: On the main page, looking at the diagram Then: All of the elements are laid out in a friendly manner and are easy to understand.
As a developer, I want to restrict unauthorized users from accessing the system	Given: The user enters unauthorized credentials When: The server verifies that the credentials are unauthorized Then: The client will display an error message
As a user, I want to see a heatmap of the location of people in a room.	Given: The user uploads a floormap and the endpoints are online When: The endpoints return data of device location Then: A heat map is displayed with device location

As a user, I want all communications between the client app and the cloud server to use HTTPS so that my data is secure.	Given the web app connects to the server When data is transmitted Then it uses HTTPS/TLS (verified by inspecting traffic).
As a user, I want to configure the cloud server IP and authentication in the interface so that I can connect to the correct server instance.	Given a user enters IP and authentication details When saved Then the app connects to the specified server with those credentials.
As a system operator, I want to configure the map of the space so that the heatmap overlays correctly on my floor plan.	Given a user uploads an image or defines coordinates When configuration is saved Then the app displays the map as background for endpoints and heatmap.
As a user, I want the interface to display the location of each known endpoint on the map so that I know where devices are deployed.	Given endpoints are configured When I view the map Then endpoints appear at their defined physical positions.
As a user, I want to see the best-known status of all endpoints so that I can confirm system health.	Given the server provides endpoint status When I view the map Then each endpoint is marked with status (e.g., green for online, red for offline).
As a user, I want the interface to display a heatmap of estimated device positions so that I can see density patterns in the space.	Given scan data is available When I view the map Then the heatmap overlays on the map showing density.