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 to be able to log out of the system.	**Given** The user is logged in **When** The user navigates to the settings page **Then** The user can log out with the log out button
As a user, I want to sign up if I do not have an account.	**Given** The user clicks sign up **When** The user enters their credentials and clicks sign up **Then** The user is navigated back to the login page and can login from there
As a user, I want to use enlarged text to help me see the elements better.	**Given** The user navigates to the settings page **When** The user clicks the enlarged text button under accessibility settings **Then** The text throughout the page will be enlarged and easier to read
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.