

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.

Acceptance criteria:

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 the user to enter credentials to validate themselves in order to use the system.

Acceptance criteria:

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.

Acceptance criteria:

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.

Acceptance criteria:

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.

# Client Web Application User Stories

User Story	Acceptance Criteria
As a user, I want all communications between the client app and the cloud server to use HTTPS so that my data is secure.	<b>Given</b> the web app connects to the server <b>When</b> data is transmitted <b>Then</b> 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.	<b>Given</b> a user enters IP and authentication details <b>When</b> saved <b>Then</b> 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.	<b>Given</b> a user uploads an image or defines coordinates <b>When</b> configuration is saved <b>Then</b> 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.	<b>Given</b> endpoints are configured <b>When</b> I view the map <b>Then</b> 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.	<b>Given</b> the server provides endpoint status <b>When</b> I view the map <b>Then</b> 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.	<b>Given</b> scan data is available <b>When</b> I view the map <b>Then</b> the heatmap overlays on the map showing density.