

MICHIGAN STATE
UNIVERSITY

Alpha Presentation

Spectrum Health Virtual Reality Experience

The Capstone Experience

Team Spectrum Health

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From Students...
...to Professionals

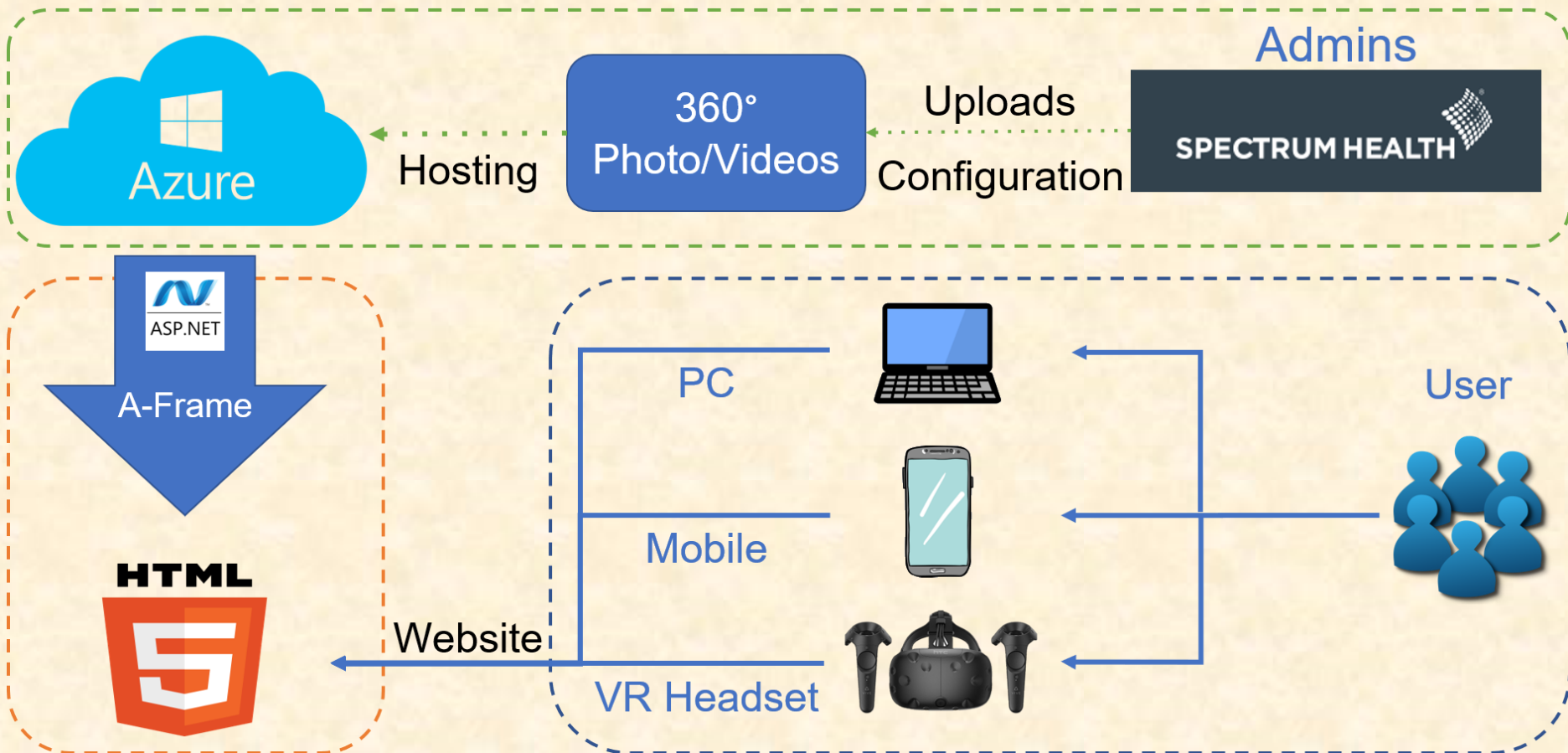
Department of Computer Science and Engineering
Michigan State University
Fall 2018

Project Overview

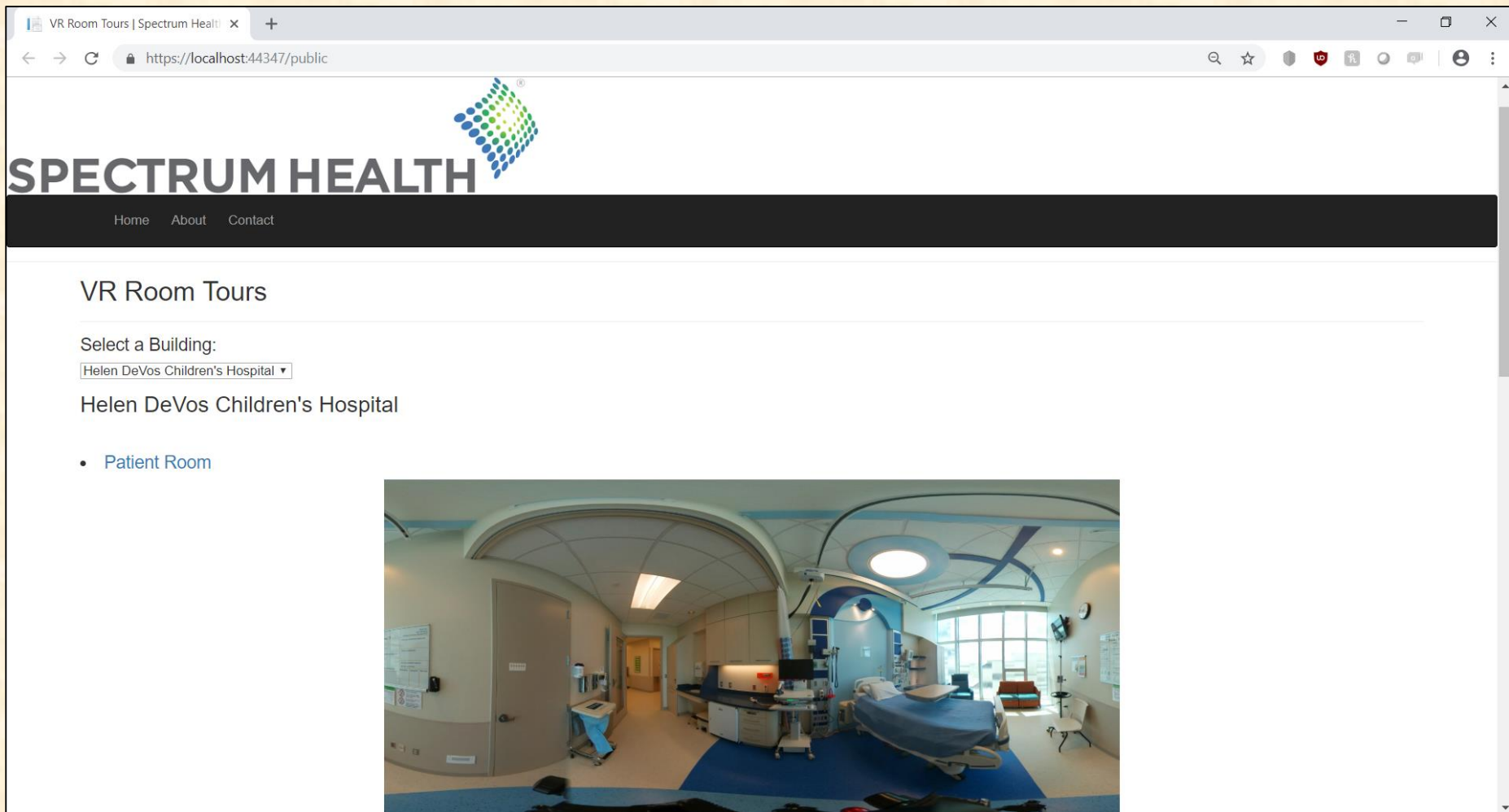
- Web-based virtual reality navigation solution
- Visual assistant for patients and visitors
- Website access along with virtual reality capabilities
- Admin access and future scalability



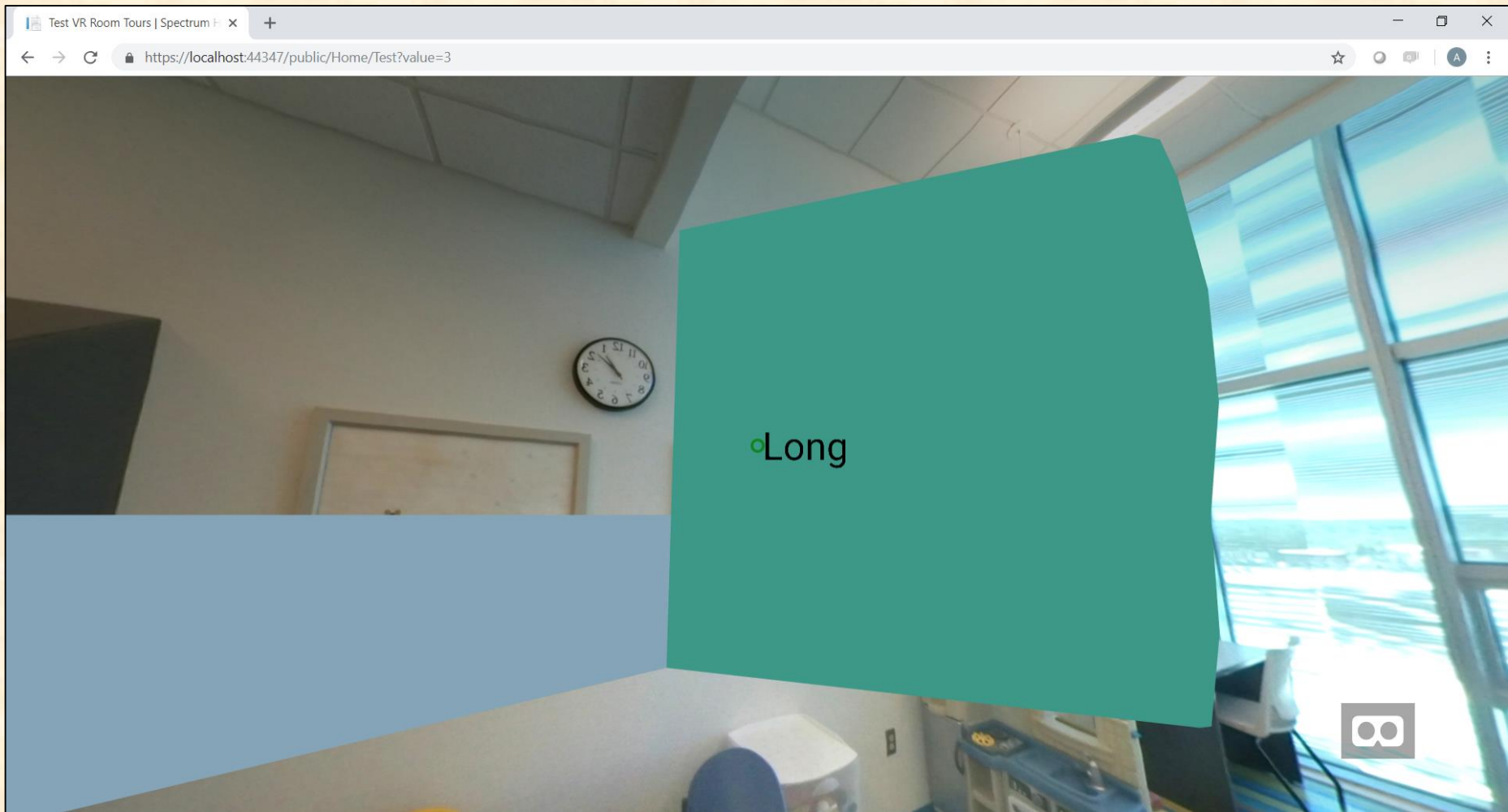
System Architecture



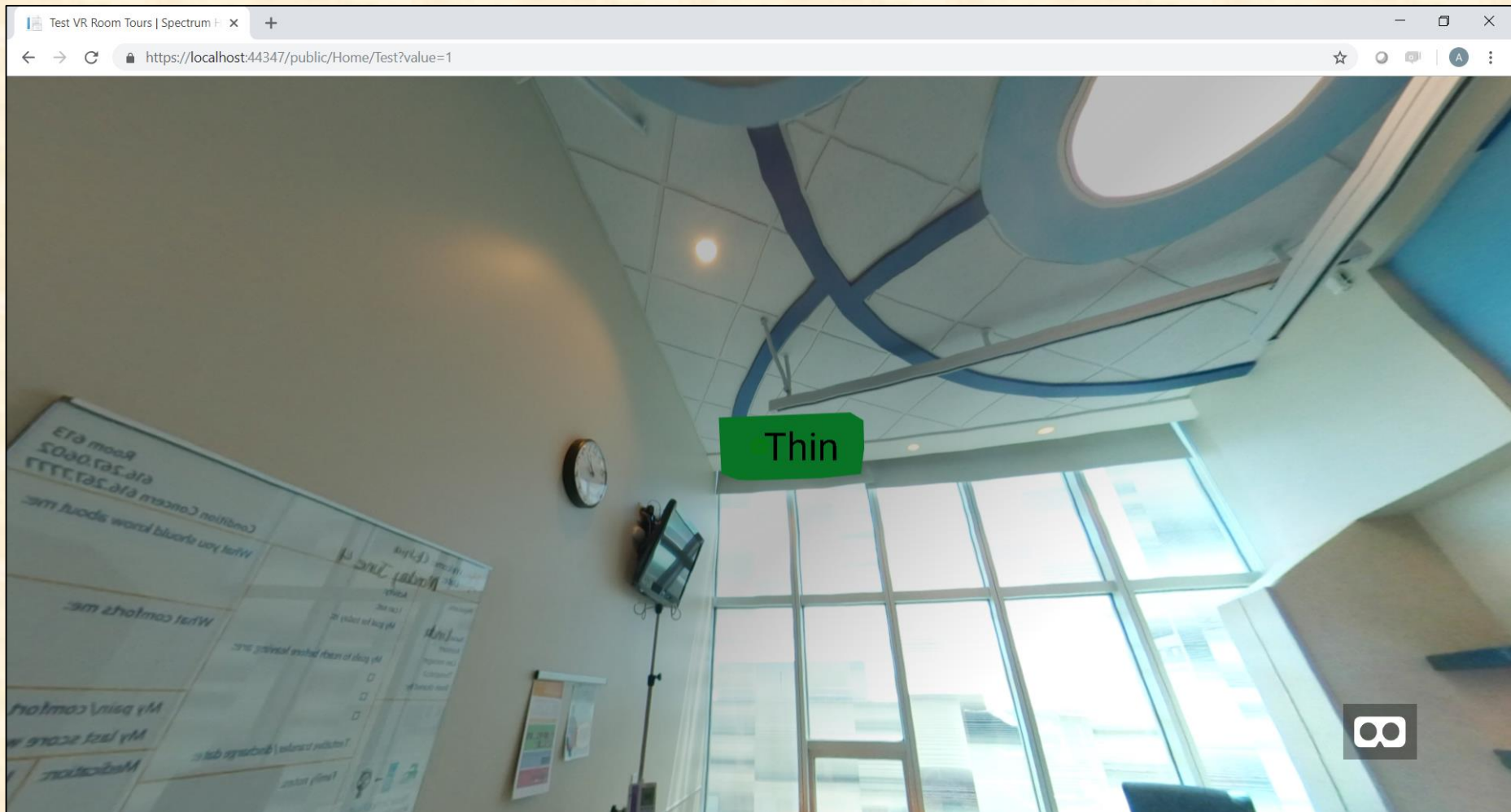
Home Page



VR Page 1



VR Page 2



Admin Page


Admin Portal

localhost:62127/admin

...


...

...

**SPECTRUM HEALTH**

log out

VR Administrator Access



Upload one or more files using this form:

Browse... No file selected.

Upload

Add Hitbox to image

Selection Title

Subtext

Create Hit Box

Building

Room



Admin Page

Admin Portal

localhost:62127/admin

...

...

...

SPECTRUM HEALTH

log out

VR Administrator Access

top left:166,26
bottom right:222,72
top left:222,26
bottom left:166,72

Upload one or more files using this form:

Browse... PatientRoom.png
Upload

Add Hitbox to image
Selection Title Electric Monitor
Subtext
Monitors heart rate for the patient, Displays vital information

Building
Main Hospital

Room
room 292



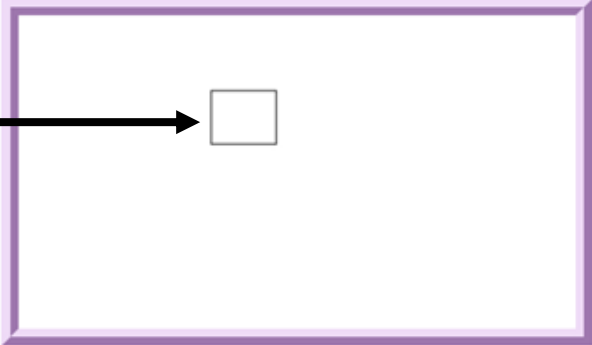
Admin Page

Hit Box
Target

Coordinates
in 2D

Labeling and
Tagging
information

VR Administrator Access log out



top left: 166,26
bottom right: 222,72
top left: 222,26
bottom left: 166,72

Upload one or more files using this form:

PatientRoom.png

Selection Title

Subtext

Building

Room



Admin Page

Simulated Preview Image

VR Administrator Access



top left:166,26

bottom right:222,72

top left:222,26

bottom left:166,72

Upload one or more files using this form:

PatientRoom.png

Selection Title

Subtext



What's left to do?

- More accurate hitbox creation
- Refine website and mobile views
- Format uploaded content for use on public site
- Functional preview for selected image upload
- Link login functionality
- Merge Git code

Questions?

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