Specifications

User Stories

1. User(site visitor) needs to be able to see the Swayambhu site in first person.

2. User needs to be able to view video, audio, and written annotations.

3. User can move around, zoom in and out, and click on parts with annotations.

4. User needs to be able to navigate to external resources through the annotations

5. User need to be able to view some key features in details, potentially linking to other 3d models

6. User needs to have a external app to navigate in.

Requirements

> **Requirement Priorities**
>
> **Definite:** we will definitely have these functioning by semester end
>
> **Perhaps:** we may have time to get to these, but not until definite requirements are done
>
> **Improbable**: we most likely won't have time to get to these, but the client identified them

Functional Requirements

> *Input/Output*

Requirement	Priority
Load 3D models smoothly on a web page	**Definite**

Requirement	Priority
Add annotations to the 3D models	**Definite**
Language toggle for English and native speakers	**Definite**
Add necessary animations to 3D models	**Perhaps**
Elegant and consistent visual design	**Perhaps**
	Improbable

Non-functional Requirements

> *Usability, Reliability, Performance, Supportability, +Design, +Implementation, +Physical*

Requirement	Priority
Be compatible with computers, tablets and mobile phones.	**Definite**
Scalable with higher quality LIDAR image	**Perhaps**
	Improbable

Interfaces

> *GUIs, Input/Output Mechanisms, Command Lines, Help Screens, Programming APIs, etc*

Requirement	Priority
Potree (or another point cloud renderer)	**Definite**
WebGL (or another tool for graphics rendering for web browser)	**Definite**
	Perhaps
	Improbable