Requirements Overview

**Goal**: To create a web widget which implements Paraview functions such as color maps, glyphs, and a legend.

**Functional** **Requirements**:

* Single webpage that connects to the Paraview server

**Visualization Mode higher priority**

* Display the maps, glyphs and legends embedded within another webpage as a widget.

**Geometry mode second priority**

* Create and import 3D models in STL/OBJ formats
  + Interact with those models where you can change perspective or highlight parts
  + Create models by defining vertices to make cubes, spheres, cones, etc.
* Capability for multiple files to be open at once

**Non functional requirements:**

* Easy and intuitive interface
* Basic inputs to interact with the data
* Menu where you can view the commands for interfacing with the data
* Well-documented expandable code

**Questions for client:**

* What exactly does the server return to the user? Is it raw data or an stl/obj file or something else?
* What types of users/modes are you hoping to support?
* Professor Mitra recommended using Typescript in place of Javascript. Is this something that would work for you?