

Design a webpage for visualizing a 3D model with a timeliner as follows:

1. A sample table on the left side of the screen that has one row for each element in a building (e.g., 4 columns and 1 slab as shown below). Feel free to use Bootstrap or any other frontend library that you feel comfortable with.
2. A viewer on the right side of the screen that can visualize the sample building model using the Three.js library.
3. A slider at the bottom of the viewer represents the timeline/schedule. The viewer should show the building model in white by default. As the timeliner (the slider below the building model in the figure) moves from left to right, building elements (columns and slab) should be highlighted in green according to the Start Day and the End Day (the 2nd and 3rd columns in the table below).

For instance, a user selected time is from 0 to 15 days that are “Start Day” and “End Day.” The slider at the left most position is 0 and 15 at the right most position. Column 1 should be highlighted in green when the slider is positioned at 0 to 2. Then Column 2 at 3 and 4 and so on.

After the End Day, the element should appear in white.

4. Make sure that the webpage is responsive, meaning that the components adjust their size and position based on the user’s screen size or user device.
5. Load the viewer on a GitHub repository and load the webpage on a GitHub URL (e.g., XXX.github.io).

The output should be similar to the attached images down below. Send me the address so I can view the page.

Feel free to contact (snoghab@ncsu.edu) if you need further information.



