

- A. Purpose: As a student of architecture, I have always felt that there are no online resources that can educate people about the advent and development of modern architecture in an interesting way. My website aims to engage people in the journey of the growth of modern architecture by using real life examples of important architectural buildings from different decades.

Information: It will offer a timeline, starting with the current day and going back, where users can navigate through the various stages or decades of the development of modern architecture in the form of a horizontal terrain timeline. When they place their cursor over a decade circle in the timeline, they will get a preview of the architecture they can zoom into, and once they click on it, they can learn more about individual examples from that era.

Engagement: The timeline journey leverages horizontal scrolling, and a backdrop of a contour terrain to give the user a feeling of actually going on a spatial journey through various examples in the timeline. Furthermore, like modern architecture, it is minimalistic and uses a visual design language of curves( one of the most important forms in Modern Architecture), to be the contour lines in terrain and also take the form curvy pictures for buildings, making the user feel like they are watching through a circular lens.

Target Audience: The target audience is users that are interested in exploring the world of modern architecture in a fun way, without having to navigate through long pieces of incomprehensible, factual information and looking for a more immersive, spatial experience.

## B. Interactions

- Begin the Journey
  - Text link
  - Click on “Begin”
- Scroll through the Timeline
  - Horizontal scroll
  - Scroll on Timeline page
- Get a preview of each decade
  - Mouse-over
  - Hover over white timeline circles
- Navigate to an example from the decade
  - Clickable svg
  - Click on decade circle
- Scroll through the example, look at pictures and information
  - Vertical scroll
  - Scroll down through page
- Navigate back to the Timeline to explore further
  - Text link
  - Scroll up, Click on “Back to Timeline”

### C. External Tools

- JQuery

Why: Simplifies HTML document traversing, event handling.

How: To achieve desired animations and navigation, also make new scenes along with ScrollMagic.

What it adds: Adds smooth animations and movement for scroll.

- ScrollMagic

Why: It helps easily react to the current scroll position, so I used it to create animations based on scroll positions.

How: By creating animations scenes and scroll triggers.

What it adds: Adds a smooth scrolling effect, helps the design language and makes the user's journey smoother.

- Scrollspy

Why: It also helps achieve smooth animations, based on scroll positions, specifically for smaller elements.

How: To trigger in smooth animations, using the scrollspy fade animation.

What it adds: Contributes to the sense of movement and aesthetic of the entire website by enabling smooth, user focused animations.

D. I iterated on the HW7 mock ups by adding more feedforward to the design, in terms of letting users know how they could interact with the main timeline page, and adding an additional landing page that introduces them to the concept and purpose of the website. I also added Back to Timeline options for each of the individual architectural building pages.

E. One of the biggest challenges for me was to be able to accomplish the interaction design I envisioned and integrate it well with my website. This started with horizontal scrolling, which had a lot of challenges, and then I had to figure out how to implement an svg and create hover previews on top of the horizontal scrolling timeline.