Home Page:

1. Display the title of the website: Trailscapes.
2. Display the Joshua Tree text.
3. Draw a connection between the title and the Joshua Tree text.
4. Function: drawConnector

1. Initialize posnA as an object with x and y properties:

- x: divA.offsetLeft + divA.offsetWidth

- y: divA.offsetTop + divA.offsetHeight / 2

2. Initialize posnB as an object with x and y properties:

- x: divB.offsetLeft

- y: divB.offsetTop + divA.offsetHeight / 2

3. Calculate the control points for the Bezier curve:

- Set dStr as a string containing the path data for the Bezier curve:

- "M" + posnA.x + "," + posnA.y + " " +

"C" + (posnA.x + 200) + "," + posnA.y + " " +

(posnB.x - 350) + "," + posnB.y + " " +

posnB.x + "," + posnB.y

4. Set the “d” attribute of the connector element to the calculated dStr:

- connector.setAttribute("d", dStr)

1. Display the landing image.
2. Display the button to go to the next page.

Transition Pages:

1. Display the description for each trail.
2. Display 2 rotating blobs with the one behind faded.
3. Display the trail’s level text moving in the opposite direction with the scrolling.
4. Animation function for the trail’s level text:
   1. Create a GreenSock Animation Platform (GSAP) timeline ‘tl’ with the following configuration:

* Set up a scroll trigger within the timeline with the trigger element as specified by transition page id.
* Set ‘containerAnimation’ to the Scroll Tween of the horizontal scrolling.
* Set ‘scrub’ to 1 (true), indicating the timeline should scrub with the scroll.
* Set ‘start’ to “left right” and ‘end’ to “right left” for scroll direction. The start point of the text is on the left, while the start point of the window is on the right.
  1. Within the timeline 'tl', add a from-to animation for the element specified by 'text':
     + Set the initial state (from):
       - xPercent: 200 (200% to the right of the original position)
     + Set the final state (to):
       - xPercent: -300 (300% to the left of the original position)
       - Set the easing function to "none".
     + The text move from right to left.

Trail Pages:

1. Display the title of the page.
2. Display the group of Trail Cards:
   1. Display the trail image.
   2. When the user selects a Trail Card, the card will be opened and display the trail’s information: level, length, elevation, amenities, notes, average time to complete, description.
   3. Only one Trail Card per Trail Page can be opened at a time by checking and removing the ‘open’ attribute from the unselected Trail Card.
   4. The trail data is store on the main.js file in the ‘trails’ constant. The Trail Cards will be added dynamically to the page using JavaScript.

Gallery Page:

1. Display a gallery carousel with images representing different aspects of Joshua Tree National Park.
2. Include navigation controls (next, previous) for the gallery carousel.
3. The images are added to the page dynamically using a for loop.

Navigation Bar:

1. Display the link to each page.
2. Due to the horizontal scroll from GSAP, special functions to calculate the position and scroll to each page are needed.
3. Function:
   1. Create ScrollTrigger for each page and store them in the ‘triggers’ variable.
   2. Return the position based on the start position of the page in the animation container.
   3. Scroll to that position when the user clicks on one of the links.