

Purpose and Audience

This website's purpose is to act as a gateway into learning about human space activities such as our goals, previous accomplishments and future endeavors. The website should be readable by anyone 13 years of age or older, but most concepts are quite easy to understand.

Navigation Bar and Footer Bar

Both bars are consistently styled throughout all four webpages to act as anchor points to create a better flow.

Navigation Bar

The bar is styled with a blue/purple gradient that fits the space thematic as well as a slight bottom border and shadow to add depth and polish. The navigation bar includes 3 items: A website logo on the left that acts as a link to the homepage, a dynamically updating title that shows your current page title through JavaScript and four text links that allow users to navigate to any page. The links increase in size when hovered, gain an underline, slightly glow and the cursor changes to a point to indicate that they are clickable elements.

Footer Bar

As the footer doesn't offer the interactivity and importance of the navigation bar, I have chosen to have it be smaller and less intrusive. It has a less eye-catching static color background and simply black text displaying the copyright information. One notable challenge was ensuring that the footer bar was being properly pushed to the bottom of the screen on all resolutions that I tested and to achieve this I had to make sure that the preceding content used Flex: 1; and had a height suitable enough to fill the screen.

Home Page

The homepage first has the long full width high resolution banner image of the milky way. I thought this a fitting image as the page is an introduction to human space activity and the milk way is our home galaxy. The rest is split into two distinct sections on the left- and right-hand sides of the page. The left contains the informational textbox introducing the reader to the motivation and goals behind human space exploration. The text color, font and size are dictated by specification, but I added a containing border box to group the title and text better. To keep the HTML file more readable I used an external text file and JavaScript to load in the text. The right side contains an image and a clickable caption that acts as a hyperlink to the image's source as per the specification. The link has similar styling to the navigation links to indicate that it's a clickable element.

History Page

The history page is sorted into two sections split vertically. The first is a 2x2 grid of 'events' which are four notable events in the history of mankind's space activities. The grid layout and spacing (40px) was used as per the specification. Each event box has a title, high quality image and description on the

event and its significance. As requested, each box's border glows when it is hovered. Beneath is a 4x3 of more human space activities, but as requested they are only images with small title captions. Each image is of uniform size and the cards (the image and caption) scale in size when hovered to provide the user with a closer look. As per the specification there is a 20px gap between each card.

Future Page

The future page was my most challenging. My initial rendition I had completed on my 1440p monitor and was satisfied with to only finding out it rendered completely wrong on my 1080p laptop. The issue is with having to provide exact positionings for elements. Switching to using more pixel-based measurements remedies this (compared to % based). The page has a central vertical timeline (I decided to reuse the navigation bar color gradient) that progressively becomes a darker shade to reflect the less clear missions (as they are further out, there is less decisive mission information). To use the space of the page better I opted for alternating the sides of the cards. Each card has a dashed line connecting it to its rough position on the timeline and every card is sorted from closest to furthest. As per the specification each has a title and short description detailing the date and goal of the project. Besides the cards are circular images relating to them with navy frames, matching the general aesthetic of the website. When hovered these images and frames expand to allow for a better look. I left a small gap between the cards and the images to allow for this expansion without the images overlaying the text.

Contact Us Page

The contact page follows a similar structure to the history page, with two sections vertically divided. I elected to center the form and the map as they are too small to have on only one side of the screen without looking out of place. The form is quite simple, the correct placeholders are within each text-area and they all have the same width, which makes them line up and look neater. If you miss a field and submit you are prompted to fill it in and if you don't enter an email address into the email text-area you are prompted to enter one. The button to submit is centralized and styled according to the specification and upon pressing it a JavaScript alert pops up thanking the user for their submission. Beneath the form is an embedded google map displayed through JavaScript centered on the University of Exeter with a pre-established pin on the University.

File Structure

I decided on storing relevant external resources (images, JavaScript files, and text files) inside their own folders separate from the HTML for the sake of clarity. All necessary files for each webpage are included in either the Header of the page or in a <script> tag. I separated the css files as it was difficult to navigate a singular combined file for each page and it improves readability. Separating the files also allows for the reuse of certain common class names such as .main-container. Inside of the submission ZIP you will find a code folder which includes all these HTML files and resource files as well as the README detailing a couple of notes and the Apache Server url that the website will be hosted on once it's running on my VM.

Development Log

Date	Time	Duration
23/1/25	15:00	3 Hours
24/1/25	12:30	2 Hours
4/2/25	12:30	2 Hours
10/2/25	13:00	1 Hour
11/2/25	12:30	2 Hours
15/2/25	16:30	2 Hours