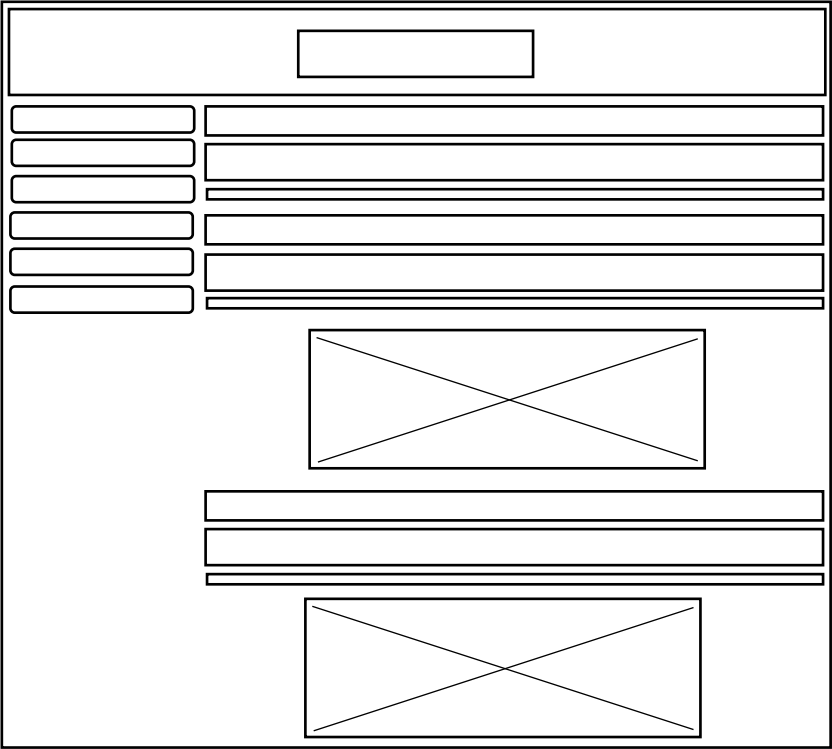


Design Document – CWK2

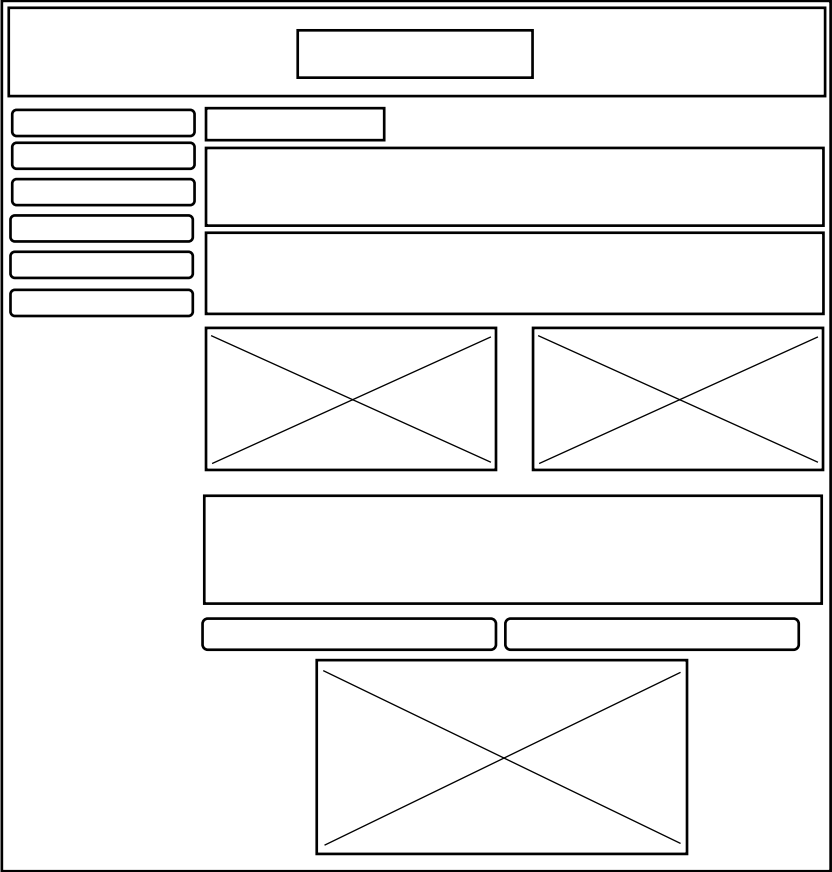
Design:

Updated Wireframe Design:

Home Page



News Page



Company
Pages

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Notes Page

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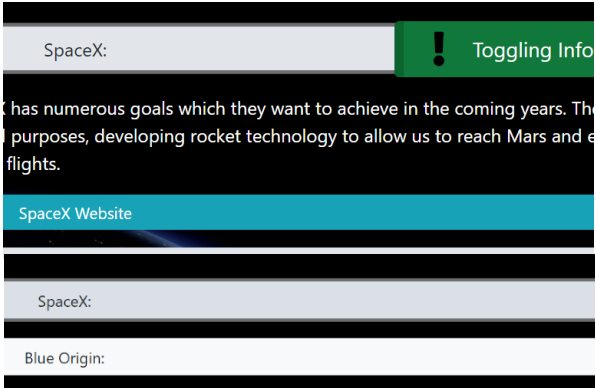

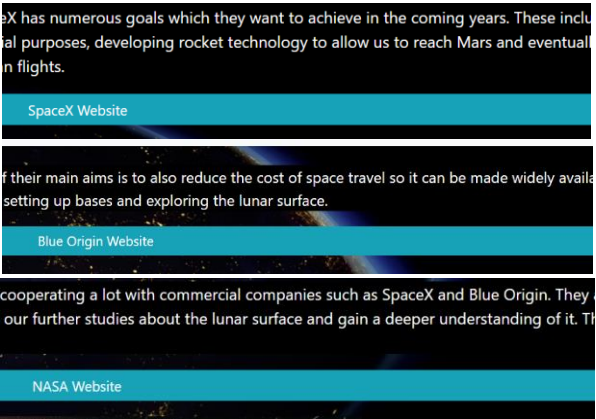
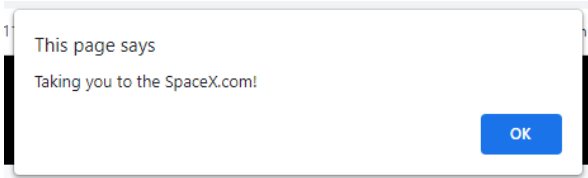
New features/Design decisions:


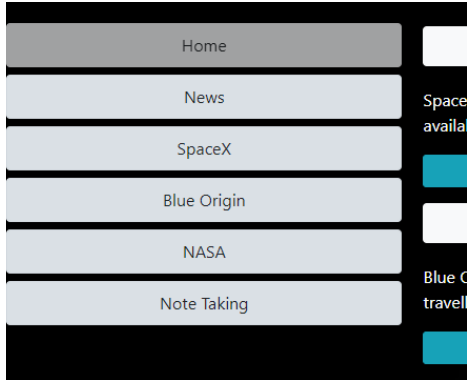
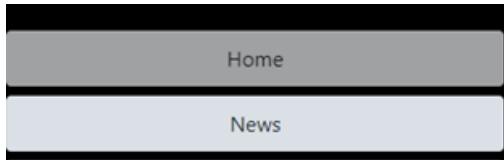
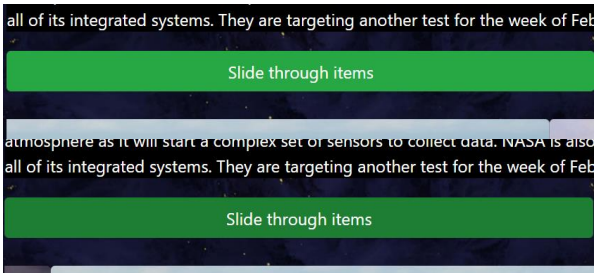
Feature No.	What is the feature/design decision?	Justification
1	Buttons to toggle information on the Home Page	When reviewing my previous website something that became apparent to me was a lack of interaction with the website. Thus, one of the solutions was to involve togglable buttons providing the website with more interaction thus keeping the users attention.
2	Alerts	In keeping with the aim to make my website more interactive I included some alerts that the user could engage with. I created a customised alert for when the user toggles information on the Home page and an alert when they click on a link to another website.
3	Improved Links	I improved the links to the websites of the 3 companies to make my website more visually appealing and to make them stand out more compared to the text.
4	Improved slideshow	I decided to change my automatic slideshow on the Home page to a manual one that had some effects when the user scrolled through it. The aim with this similarly was also to improve the interactivity of my website.
5	Improved navigation menu	With my navigation menu I altered the style slightly making it more visually appealing to the user so it stood out as well as to make it so that when you are on a certain page you cannot click the menu tab for that certain page. By doing this it made my website seen more professional.
6	Fixed up images	I went through all the images in my website altering them so that they would fit together well with other elements on the pages thus making my website more appealing and professional.
7	Carousel	In the initial stages of making my website I wanted to incorporate a gallery page, however I decided against it in the end. Therefore, to add some more imagery to my website I added a smaller version of a gallery in the form of an image carousel that would automatically or manually scroll through the images improving the visual aspect to my website.
8	Popovers	I wanted to implement some small pieces of information in my website that were not specifically "space related" news. To work around this, I implemented popovers that when hovered over would allow the user to see small snippets of information for certain words.
9	Jumbotrons	I wanted certain parts of information to stand out above the rest, drawing attention to it. For this reason, I implemented jumbotrons into my website allowing me to make them stand out whilst still making my website look appealing.
10	Videos	Now all the media on my website was in the form of images and I wanted to diversify this. To achieve this, I implemented some pop-up videos that would allow the user to watch a short video.
11	The Notes page	I wanted the user to be able to receive a bit more information about themselves and make some notes on any material they


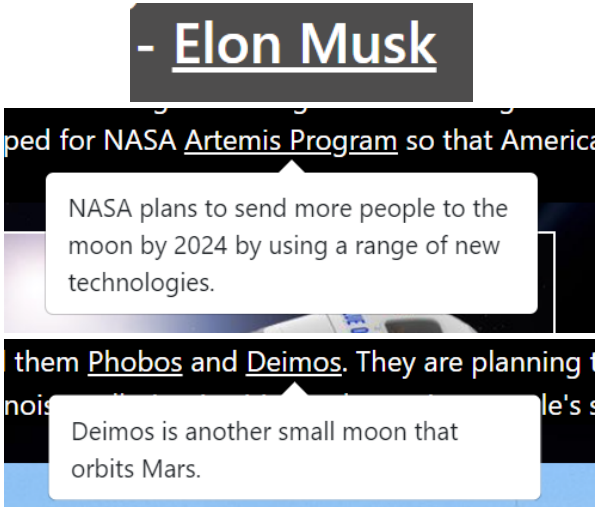
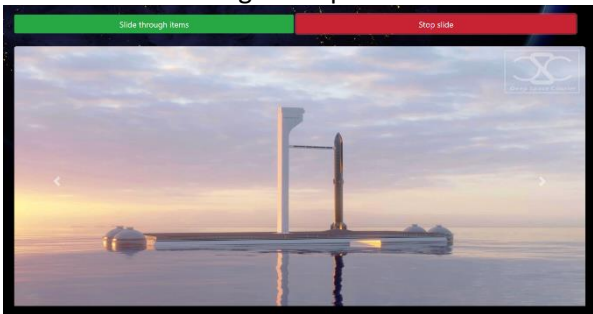
		found interesting on the website. Thus, I decided to create a new page to my website where this could take place.
12	Geolocation	I wanted my user to be able to get a bit information about where they were currently in the world thus again providing more interactivity between the user and my website.
13	Session Storage for name	I wanted the user to interact with the website more and thus be more inclined to use it. Therefore I added a bit of customisation in the form of allowing the user to enter their name and the website greeting them. To keep the customisation, I used session storage so each time they opened the website it would reset maintaining that interaction and customisation.
14	Local Storage for notes	Also, the main aim of the Notes page was to allow the user to make notes. Therefore, I added a text area where the user could write notes, but I wanted to make it so that if they wanted to visit the other pages the text area would remember what was stored in it previously. I achieved this by incorporating local storage to remember what the user had written.

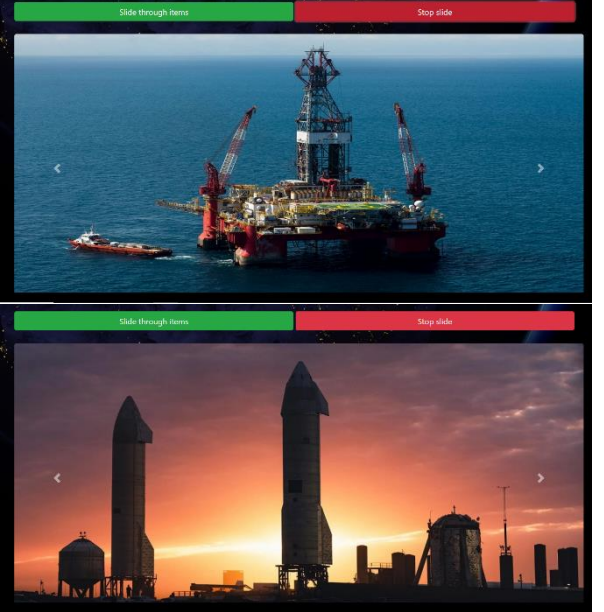
Evaluation:


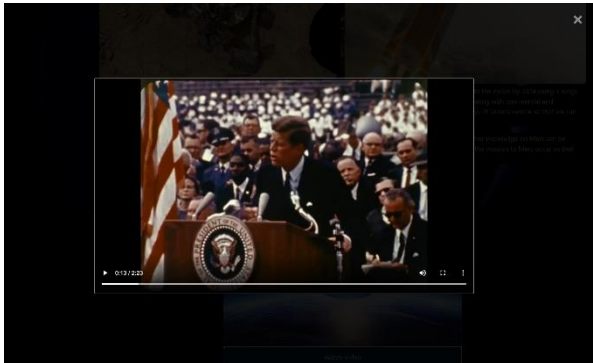
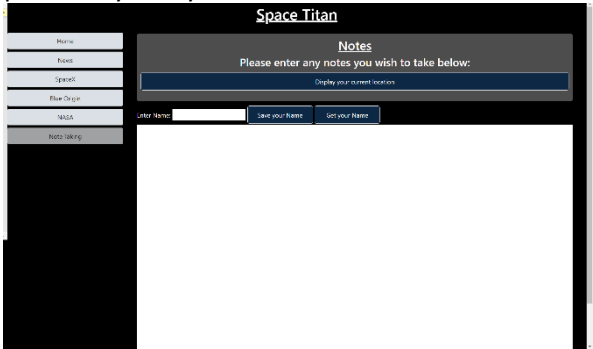
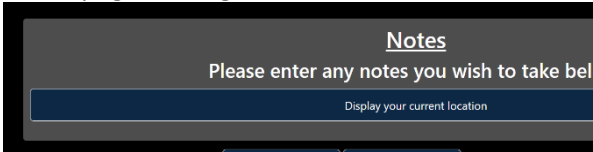
Testing for new features:

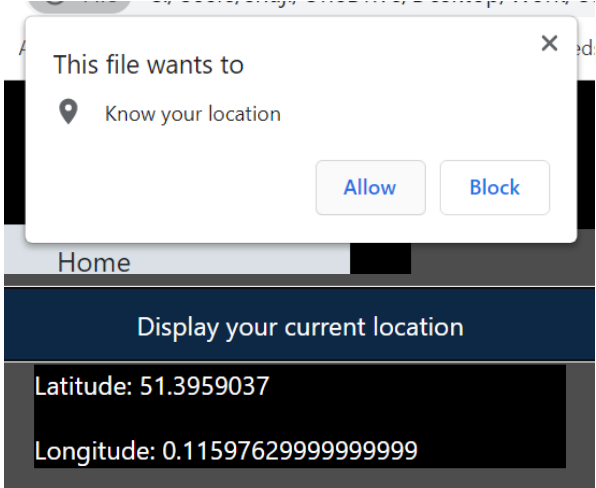
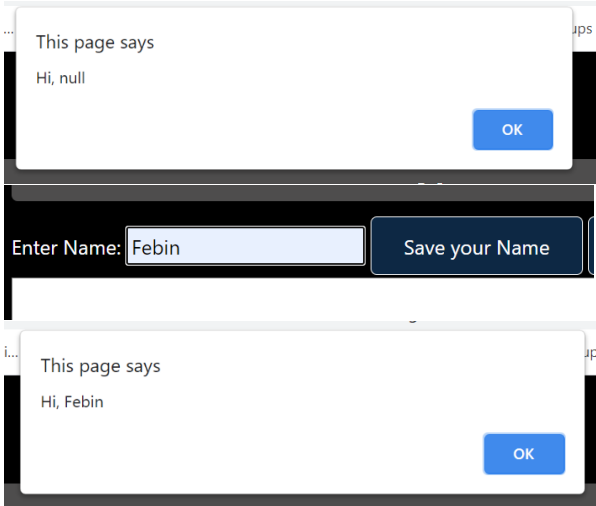

Test no.	Test Description	Successful?	Evidence
1	The Home Page must include buttons that when clicked can toggle information for the 3 companies.	Yes	<p>Below we see a screenshot of one of the buttons being used to toggle information. This is the same for the other 2 buttons.</p> 
2	The Home Page must include a customised alert indicating when a button from test 1 has been clicked. This alert must go away after a certain time or allow the user to manually close it.	Yes	<p>Here we see that when the buttons on the Home Page are clicked the following alert is displayed onto the screen.</p> 
3	The links to the 3 companies webpages on the Home Page have been improved so they are more visually appealing to the user and stand out.	Yes	<p>Here we seen the 3 links to the websites and how they have been made more visually appealing to the user.</p> 
4	When the user clicks one of the 3 links a normal alert pops up telling the user they are being taken to another page.	Yes	<p>As we can see here when a link is clicked a corresponding alert is given to the user.</p> 


5	The Home Page slideshow has been converted to a manual slideshow that has certain effects when scrolled through.	Yes	<p>Here we see screenshots of the 4 slides in the slideshow on the Home Page. We can also see the control arrows that allow the user to scroll through the slideshow.</p> 
6	The navigation menu on all the pages now has rounded edges and slight style changes to make more visually appealing.	Yes	<p>Here we can see the screenshot of the improved navigation menu. As you can see the edges are now rounded and making use of BS4 it has been made more visually appealing.</p> 
7	When using the navbar you cannot click a navbar tab for the page you are already on.	Yes	<p>As you can see here while we are currently on the Home Page the home icon in the menu is greyed out. If we try to click it, then nothing will happen.</p> 
8	When a button is clicked it will also be toggled from on and off.	Yes	<p>As you can see in the screenshots below when the button is clicked it darkens slightly.</p> 

9	Images on the News and Company Pages have been modified so they fit together well and have rounded edges thus making them more appealing to look at.	Yes	<p>As we can see in the image below all the pictures now fit together nicely and help to improve the overall look of the website.</p> 
10	The News and Company Pages now include popovers providing the user with more information when certain words are hovered over.	Yes	<p>As we can see here when certain words are hovered over popovers with additional information are displayed.</p> 
11	Implemented a carousel of images that can automatically slide through images. Can also stop the automatic sliding and can move through images manually.	Yes	<p>As we can see in these screenshots the 2 buttons to start and stop sliding through the carousel as well as all the 3 images are present.</p> 

			
12	The Company Pages now all have a jumbotron at the top to make the title of the page and the quote stand out from the information.	Yes	<p>As we can see here all the Company pages have jumbotrons to make certain things stand out.</p> <div data-bbox="794 927 1401 1346"> <p><u>Space Titan</u></p> <p><u>NASA</u> My vision is a future for humanity where we will be completely free to put people outside of our planet. - <u>Franklin Chang Diaz</u></p> <hr/> <p><u>Space Titan</u></p> <p><u>Blue Origin</u> We're committed to building a road to space so our children can build the future. <u>Bezos</u></p> <hr/> <p><u>SpaceX</u> If you had to buy a new plane every time you flew somewhere, it would be very expensive. - <u>Elon Musk</u></p> </div>

13	The Company Pages also now include a pop-up video with an image and a button. When the button below the image is clicked it will pop up a video into the screen which the user can interact with and watch.	Yes	<p>As we see here there is an image with a button underneath and when that is clicked then it pops</p>   <p>up the video as shown in the second screenshot.</p>
14	My website should have a new page with the main purpose of allowing the user to take notes.	Yes	<p>Here we see a brand-new page that was not previously in my website.</p> 
15	The Notes Page has a jumbotron at the top to make the title, a description and a button asking the user if they would like to use geolocation to look at their latitude and longitude. The jumbotron should make this all stand out.	Yes	<p>Here the screenshot shows a jumbotron on the Notes page making certain elements stand out.</p> 

16	The Notes page has a button that lets the user use geolocation to get their latitude and longitude.	Yes	<p>Here we can see the process of the website asking the user for their permission to access their location and then displaying it.</p> 
17	The Notes page makes use of session storage to allow the user to input their name. It should remember this name until the user closes the page.	Yes	<p>Here we can see the user being able to store their name and the website remembering it.</p> 
18	The Notes Page contains a text area where the user can take notes.	Yes	<p>Here we see a text area where the user can write anything that the find interesting.</p> 

19	The notes taken make uses of local storage and can then be saved and accessed at any other time to continue writing.	Yes	As shown in the screenshot below when the user loads the notes, they reappear in the text area. 
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Evaluation of Implementation:

One of the main aims with the new features that I implemented into my website was to make it more interactive and therefore attracting the user's attention. We can see several different features that have been implemented to achieve this, some include pop up videos, a carousel, manual slideshow, togglable buttons etc. Another aim was to make my website look more visually appealing to the user and this can be seen by the improvements made to the pictures, the slight changes to the navigation menu, jumbotrons etc. I wanted my website to also allow the user to take notes and the main aim behind this was to increase the functionality of website from just an information providing website. Overall, the reason why the old features/design has been changed with these new one is to achieve these goals enabling me to design a website that is both interactive and looks professional. Although I am happy with these changes, I have made I recognise that there are further steps/features that could be taken to further elevate my website to a new level. One of the improvements I want to carry out is to improve my text area and develop into one that offers more options to the user like Microsoft Word. I would also like to improve the geolocation and alter it from just displaying the latitude and longitude to displaying a map based on those coordinates. These 2 improvements that I could make in the future would allow my user greater customisation over the notes they are taking and once again further elevate how interactive my website is.

References:

- Information for the website came from the websites of the three companies as well as news articles from CNET and The Independent.
- Earth at night background picture - Wallpapercave
- Moon and mars picture on the home page - Arstechnica
- Merlin engine picture in slideshow on home page - Spaceflightinsider
- Blue Moon lander picture in slideshow on home page - Techcrunch
- SpaceX dragon vessel in slideshow on home page – Cdn.vox
- Jeff Bezos picture in slideshow on home page – Thespuzz
- SN9 and SN10 picture on news page – Rocketweek
- SpaceX oil rig on news page – image-cdn.hypb.st
- SpaceX launch platforms render on news page - Blogspot
- Space launch system on news page – Wikimedia
- New Shepard on news page – Blueorigin
- Starship render on spaceX page – Rocketrundown

- SpaceX company intro trailer – YouTube -
https://www.youtube.com/watch?v=NMKhhdZRkaQ&ab_channel=Techandtrains101
- Falcon heavy night launch picture on spaceX page - Spaceflight101
- Blue Origin company intro trailer – YouTube -
https://www.youtube.com/watch?v=kbT29lA322g&ab_channel=BlueOrigin
- Blue Origin vessel picture on blue origin page – Geekwire
- Blue Origin render on blue origin page – Alabamaneewscenter
- NASA intro trailer – YouTube -
https://www.youtube.com/watch?v=WeA7edXsU40&t=17s&ab_channel=NASA
- Curiosity rover picture on NASA page – Universetoday
- NASA launch picture on NASA page – Cdn.vox
- NASA logo on NASA page – panoramaaudiovisual
- Blue Origin logo render on Blue Origin page - static1.makeuseofimages.com
- Falcon 9 on spaceX page - i.gadgets360cdn.com