

Delete when you've remembered to put all your code on a document

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Project report

Project Plan

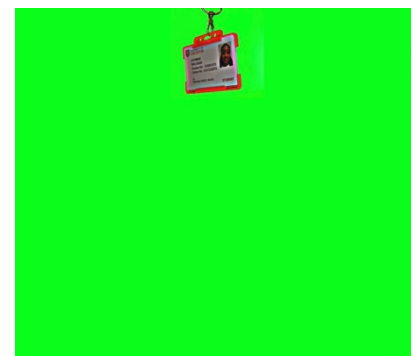
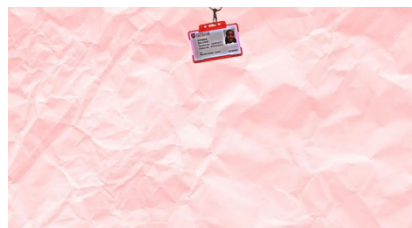
The aim of this project is to utilise newly taught and fundamental html knowledge to recreate our own personal student PDP forms. We are also prompted to use creativity whilst creating this html form and to integrate JavaScript and CSS within our project. As a student fairly new to coding, my aim is to explore all possible functions that could be added to the webpage, reflective of functions learnt in lecture but also researching to explore wider scopes open for creative interpretations through my code.

Outline and Evaluation of work

Animated background

Whilst initially brainstorming ideas, I came across the idea of a 3D animation on the website. This idea was partially inspired by an iPhone application I tend to use. On this application you can rotate a shoe (full 360 degrees) which I believe to be a fascinating and innovative approach to purchasing shoes. I wanted to achieve this 360-rotation effect on a 2D background with a common and relatable object such as my student ID. Upon research I quickly found that eternal mediums would be required, this became evident as while I researched, the only possible 3d rotation animations I could find pertaining to html was the infamous 3d cube.

I proceeded to hold my student ID against a green screen (on my laptop) and record a short clip of the card rotating using my iPhone. I then used a video editing application, PicsArt, along with iMovies to edit my video and place it against a pink background I had found online.



I was able to set my video as an auto-playing muted video background using CSS features. I admit that difficulty arose whilst trying to scale the background. This was because initially I found that when the window is not on full screen and it is adjusted, it left blank spaces around the edges of the page (despite setting the padding and margin to zero).

My solutions to this were as follow:

- Setting max width to 100% meant that as the width of the window was adjusted, so was the background video, meaning the animating top area remained aligned in the centre as in the original video.
- Setting the min-height to 100% meant that window utilised at least the full height of the background at all times, meaning no gaps of white spaces where left when you scroll down.
- The object-fit property was most important in assuring the video maintain the entire content box.

```
.showcase video
{
    max-width: 100%;
    min-height: 100%;
    position: fixed;
    left: 0px;
    top: 0px;
    z-index: 10;
    object-fit: cover;
    overflow: hidden;
    overflow-y: scroll;
}
```

I excluded 'controls' within the html video tag, this was done to remove the ability to use video features as normal for the background (pause play etc), giving it more of an illusion of the 3D object animation.

Font and table

To attain my desired fonts, I used <link> tags, I attained the URL for the fonts by downloading and importing them from google fonts. I was then able to specify font families using CSS.

JavaScript

I used JavaScript for the background in assuring the variable to which the video-background was contained, cannot be redeclared.

References

Traversy Media. (2021, January 4). Create a Website With Video Background | HTML & CSS. Website. <https://youtu.be/8MgpE2DTTKA> [Accessed: 14 November 2022]