Web Application Development

Our website: City Weather link: <http://livescore-jakemurphy217571905.codeanyapp.com/webApp%20project/home.php>

What is our website: at the start we set to make a live football news website where you could save your favorite team to a database but we quickly found out football APIs are expensive and a bit too complex for us yet. So we decided to use a weather API. Our website idea was to develop a website where you could search your town or city and get accurate Weather results. Then being able to save your favorite towns or cities to a database.

Technologies used: there is many different types of technology that goes into the development of a website. Such as server host, to host the website which we used codeanywhere which let us save our progress and host our website. So to retrieve live Weather information we used AJAX which is a client side script that allows you to communicate to and from a server. We chose AJAX because many APIs use AJAX and is very similar to JavaScript so it wasn’t too much to learn from scratch. It also reduces the amount of code that you would have to do then if it was XML. Then to communicate between the website and the database (phpmyadmin) we used PHP which is a server language we chose PHP because the amount of information on the internet between forums and video tutorials. Then for design we used bootstrap 4. This one of the most html frameworks which makes it much easier to make the website responsive. There is also lots of help from w3schools and YouTube for information and design. But can be different to traditional html. So it does take some practice.

Where they used: so for the whole design of the project we used bootstrap which we used by linking the CDN into each html page so there was no need to download files while still getting the full benefit of bootstrap. Then as I said previous used Ajax to communicate to and from the API. We then in the html linked the html search button to the JS file which contained the function to retrieve all the relevant information I chose from the API as the API came with many commands but I only chose a few for my project. Then for our CRUD there was a favorite page which allowed you to input your three favorite cities which then went to the database on phpmyadmin. This was done by using PHP to push the user’s inputs from the website then to be stored on the database. You could also update and delete favorite locations. We then tried to add a contact information which allowed the used to the user to input there email address which then goes to the database then from this database we can send daily newsletters to keep up to date to the users.

Pros of the technology chosen: AJAX is based of JavaScript so I was not too difficult. Bootstrap is responsive and is easy to implement into your website. API we chose was simple are reliable.

Cons of the technology chosen: bootstrap can take time to get used to it. Linking to a database using PHP can be difficult.

Work split

Jake-API and database

Gavin-html

Ciaran-PHP and reports and slides

Communication

for communicating we used drop box and shared each other’s progress on a shared file.

References:

<https://pixabay.com/en/beach-dawn-dusk-ocean-sea-1867285/>

<https://www.youtube.com/watch?v=KT6Jaxl0JM4>

[Week 5 - PHP & JQuery](https://moodle.ncirl.ie/course/view.php?id=1041#section-6) solution

<https://www.w3schools.com/bootstrap4/default.asp>

<https://www.w3schools.com/bootstrap/bootstrap_navbar.asp>

<https://openweathermap.org/api>

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