Web Tech Coursework2

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1 Introduction

Homepage The Homepage links the four web pages together and serves as the main hub of the website. From here the user can navigate to any of the four weather systems. This is also where new users would arrive and clearly see that the site is all about weather.

Weather Page Each page has an embedded YouTube video that shows the user what they are looking for. It has some written information about weather and links to other websites that are related to that specific weather pattern such as StormTrack[1]. There is a Home link so that the user can easily navigate to the home page to see the other weather types.

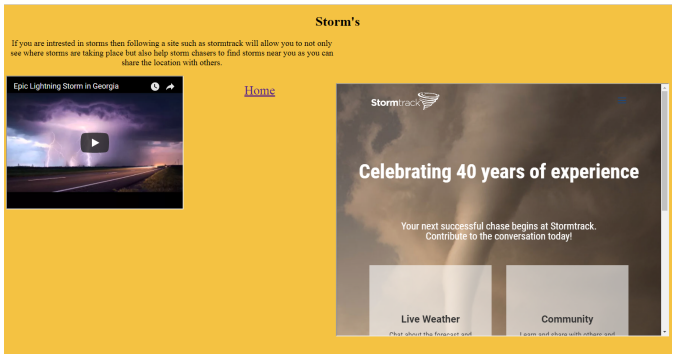

Figure 1: **Storms** - This is the website about the storms

2 Design

Videos It was decided that since the site is written about weather then a picture would not give it justice so a YouTube video was embedded so on every weather page. This is so that the user can get a full view of what these weather systems look-like. Also the fact that it is using YouTube then the video will work on any browser as all common browser's are compatible with YouTube. This would also allow the user to learn what aspects of a storm makes it a super-cell or an ice-storm so the user can identify what type of storm it is and take appropriate action if they are in one.

Embedded Websites It was decided that there would be 3rd party sites linked such as the Hurricane Tracker[2], the Super cell information [3] and the Ice storm Wiki [4]. This allows the user to get a much broader range of interesting information about this subject than can be provided by one person.

3 Enhancements

Navigation-Bar In future a menu-bar would be added that would allow a user to navigate to the other weather sites without having to go back to the homepage every single time they want to change site. It would also highlight what page you are on so that you don't accidentally "refresh" the page that you are on.

Weather Prediction Geo location functionality would be added so that the website would be able to let the user know if there was a storm or hurricane or whatnot incoming to their location. This would be predicted using a weather API which would predict the weather at the location they are at. This would allow the app to not only be used by those

interested in storms and the such but also can be used by anyone who wishes to know the weather in their area which would greatly expand the user base which would make the site more popular as a whole. These two different groups of people could become more interested in the information on storms and such for if a storm is approaching then they can find out which dangers to look out for .

API Instead of using other websites; in the future API's would be used so that it is all contained in one site so as to stop the need to load other pages which may slow down a users browser. This would allow the user to get accurate information that they can use to refine what it is that they are looking for and tailor it more to there needs for if the api gets the users location then warns there is a hurricane on its way then they can find out relevant information about that specific hurricane.

4 Critical Evaluation

Embedded Websites These work well because it allows the user to access more than one source which will aid them in finding out more information. This also means that the user will get access to different view points. However it would be an improvement to add even more sites so that this website can act like a hub of information so the user can get a host of different perspectives. However on top of the external websites the host website would use some api's to get some original information and it could possibly also allow the website to check if there are any weather warnings in the users area.

YouTube The fact that YouTube is used to run the videos means the user is almost guaranteed to be able to run it as YouTube is a solid format to run videos. Also the user wont need to install any software to run a specific format of video.

Link These work poorly because they are not eye catching whereas if they were bright buttons/clickable images then it would be clearer to the user what is where and how to access them. At the moment the links look like links you would see in an old website with just text and this frankly will look displeasing to the user. It would be more effective to use an image to click which would not only be more appealing to the user but could also be incorporated more easily into the overall design of the website whcih would make it flow more easily.

5 Personal Evaluation

Learned I learned how to link videos and web pages to a website. Also i learned how important it is to have a clear goal before you start a project so you have some direction in what you are doing. This would allow for more accurate planning on which features are more important for the functionality of the website as a whole. I also learned that keeping with an overall common design is quite difficult and thinking of the design itself is a challenge.

Challenges One of the challenges i faced was trying to get websites to show on mine. In order to solve this i found out about iframes in HTML. Another was linking an api to my python which i did not solve sadly.

Performed I feel i have performed not the best i could have done, that is clear. However i feel i have learned a great deal about not only the technologies used in this piece of work but also about myself.

6 Conclusion

To conclude i feel i have made a solid base website that functions as intended but also able to be improved quite easily also.

References

[1] M. Weggasser, "Stormtrack," https://stormtrack.org/.

[2] H. C. F. C. District, "Hurricane tracker," http://www.thehurricanetracker.org/live-tracker.

[3] U. N. W. Service, "Super cells," https://www.weather.gov/ama/supercell.

[4] Wikipedia, "Ice storms," https://www.weather.gov/ama/supercell.