RIDE 2020

Group 17

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Link to Project:

(Hosted on school server, must be connected to MSU-Secure to access)

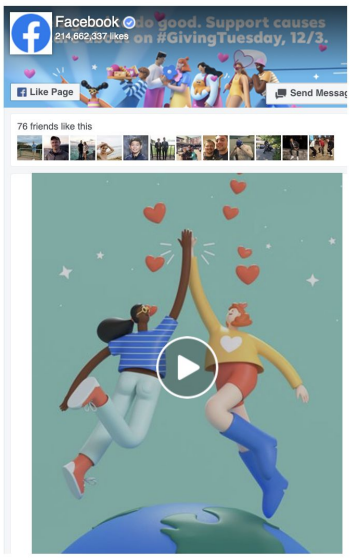
http://csci491-01.cs.montana.edu/~k84b546/Ride%202020/

Objective:

The objective of Ride 2020 is to provide a personal website for a bike ride across the United States. The site is intended to be a single and convenient way to update people of the user's journey while also providing a way to support the cause. Ride 2020's website needs to include features such as social media links, live media posts, ride statistics/charts, allow for money donations, and update all visitors of the site as to the general mission statement and ride progress.

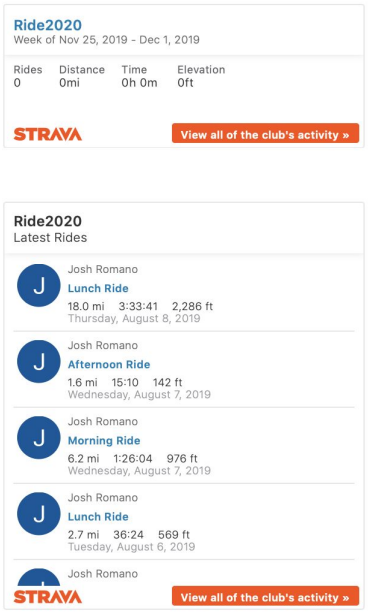
Summary:

We wanted this website to be easy for users to follow along with the ride. Social media is the easiest way nowadays for people to stay in touch with something. We were able to integrate social media links and feeds into the website. The social media links are at the footer of each page and the feed on the home page.

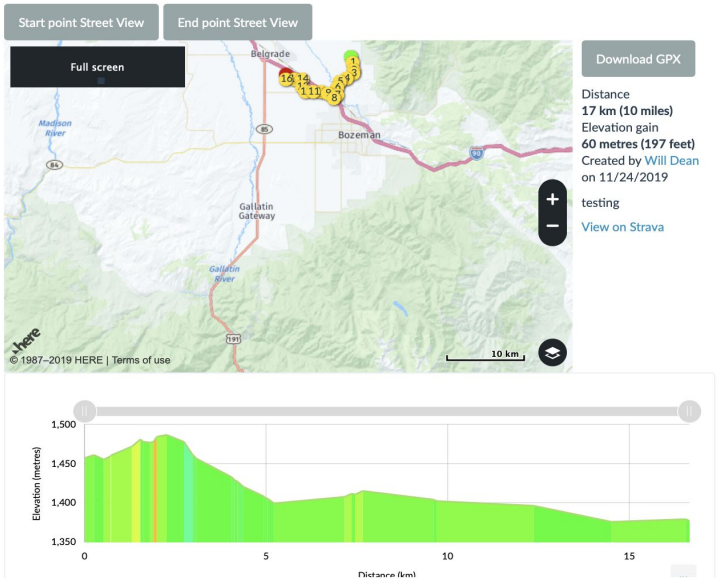


For stats about the ride, we wanted to be able to connect to a page on Strava (a fitness app) to display charts and maps of the ride. We were able to accomplish this through widgets provided through strava and their api. We were also able to find a widget that provides mapping of routes on the website.

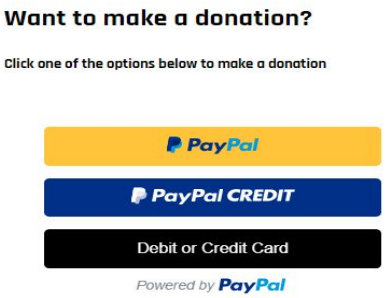
Strava picture 1



Strava picture 2



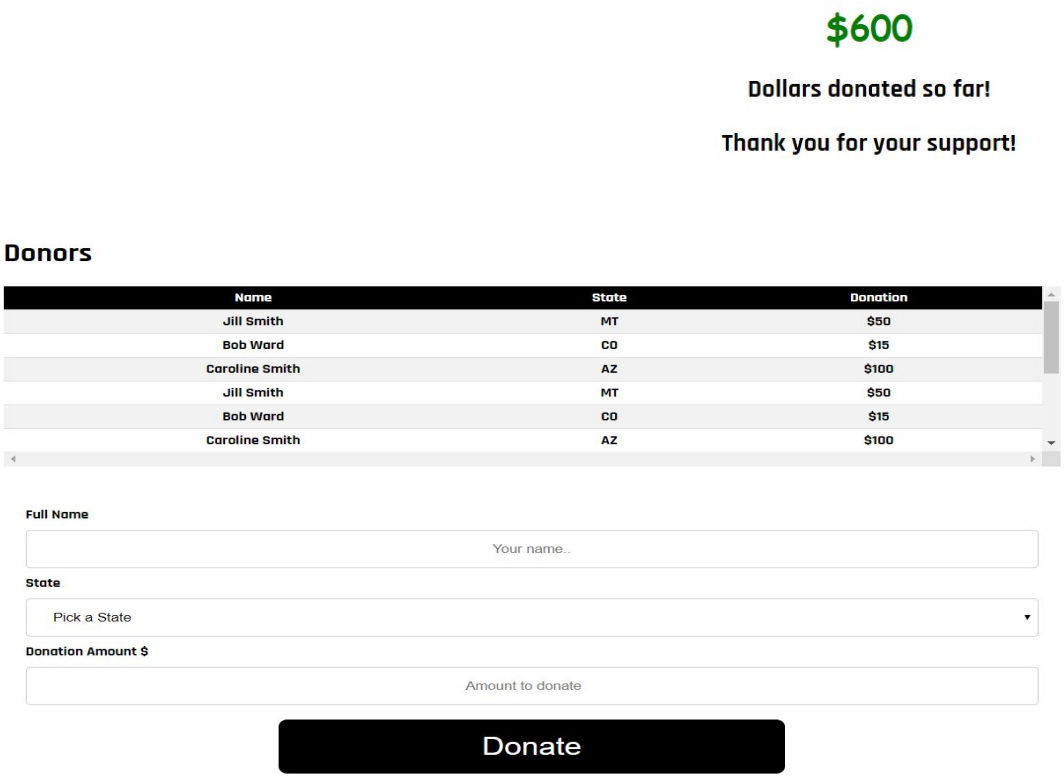
One of the primary goals of the website was to allow for the rider to take in money donations for the cause. A trusted way to take in donations electronically was to implement a PayPal interface into the website. The PayPal interface can be found on the Donors tab of the website and a snapshot of the interface can be found below.



Currently, this interface should be able to take in donations and work as a normal PayPal payment method. In order to complete the functionality of this interface, the rider would need to setup an account with PayPal first, before any forms of payments can be

accepted. Because the rider does not currently have an account, this feature has not been tested.

In addition to being able to accept donations, we thought it would be important to recognize charitable donors on the website. To do this, a table with general information about the donor and the amount donated was constructed. A snapshot of this table can be found on the next page. The table accepts 3 box inputs - name, state, and donation amount. The idea was to allow donors to put as much of their name as desired into the box, a state (“other” if they want to remain anonymous), and a full dollar amount. Then by clicking the donate box below, the table would update with the donors information as well as the total amount donated being updated. These functions have not been completely implemented since the end goal would be to integrate the information in with the PayPal functionality such that once a PayPal donation was accepted, the table would update.



Member Pages:

My (Michaela) part of the project was to create a layout for the website and design it to look appealing and professional. Mainly, I worked with HTML to build the structure of the website and CSS to make that structure look nice. I also looked into and found a way to implement a Facebook feed into the website. I started with the HTML for the index.html page. I put in a navigation bar with a link to each of the pages that we wanted our site to have, then created a footer with links to relevant social media accounts. Next, I looked for a background image to breakup the whitespace of the website and create a more visual appeal. Then, I created a logo using canva.com. I had a little difficulty with the Facebook feed. The first few times I tried, nothing would show up at all, then I would get a header but none of the posts would appear below it. Eventually, I found a website called Facebook Page Plugin which actually makes it really easy. All you need is the url of the Facebook page and it spits out the code for you to plug in to your own code. Once I got the Facebook feed working and the index page was where I wanted it to be, I moved onto the other pages and set them up to look nice with images and consistent fonts.

My (Will) part of the website was to integrate stats/charts of the ride into the website. I decided to use Strava to integrate into the website. My first task was to set up a Strava club so that the riders were able to connect to a central hub, and then I would integrate the club statistics into the website. This task was fairly easy, other than the fact that I didn't have any ride statistics to make sure it was working. From there I wanted to integrate simple charts into the website. After some research, I found that strava had some pre-built widgets that were very easy to integrate into the website(Strava picture 1). Now I had the task of integrating a map of the ride. I spent about two weeks trying to use the Strava api to create this tool. This ended up being a lot bigger task then I could handle in the time period of this class. So after I hadn't gotten very far in that time period I decided to scrap the idea of building what I wanted and went looking for what I wanted. I was able to find something similar to what I wanted, built by another developer (Chris Bell). I was able to use his website, input my route url and then outputting code to integrate into the website nicely (Strava picture 2).

My (Cole) role was to introduce the donation features of the website as well as some kind of functionality to display donations. In order to do this, I decided that a PayPal functional interface would be simple, secure, and diverse. PayPal allows for multiple forms of payment such as through a PayPal account, credit card, and debit card which will allow for most users to donate. PayPal makes the interface easy to implement and gives you most of the necessary code to implement their interface. I went to their website and created the code and functionality I desired then added this to our website once Michaela had it constructed. This interface should be fully functional to accept

donations but wasn't tested because an account would need to be setup on behalf of the Elks homeless veteran foundation.

In order to give recognition to the donors as well as display the results of the cause (i.e. total $ donated), I chose to implement a scrollable table that updates when a donation is made. Donors can enter their name (in as much detail as they wish), state, and the amount they wish to donate to the cause. After entering this information into the form, they can click "donate" and the data should be appended to the table and the total amount should be updated. I currently have JavaScript code for this to occur, but I am not getting it to update the table so I plan to get this functioning in the upcoming week. I would have liked to implement this script but wasn't sure which language we were going to use and ran out of time.The end goal would be to integrate the table updates with the PayPal functionality, such that after a PayPal donation has been accepted, the table would update. However, because we don't have an Elks homeless veteran foundation account setup through PayPal, this was more of a conceptual representation of what was desired. The styles, format, and most of the functionality have been implemented on our side as far as taking donations, it will require the collaboration of the Elks foundation and the biker to put the finishing touches on accepting donations.

Conclusion:

Overall the website has the components and integration that we were looking for. It provides a platform so that people can follow along with the bike ride. We were able to integrate all the things we were looking for. We have social media links and live feeds so that people are able to see the most recent info coming from their social media. We were able to integrate a payment method link so people could donate to the cause (The Elks homeless veteran foundation). We were able to display stats about the ride through charts and maps, even though we ran into the issue of not having enough time to be able to build exactly what we wanted. One thing that we would change is trying to build the map functionality(Strava) to our exact needs, if we had more time. Will, will continue to work on the website and will eventually take it live. He will take what we made and expand on it to make a final product for the client.

References:

https://developers.facebook.com/docs/plugins/page-plugin/

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https://www.doogal.co.uk/StravaRoute.php

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