

Project Submission - Project 2

CSC 130 - Spring 2018

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Project Submission

An application that allows users to login with their Google Account and submit their project for class.

Problem and Specification

What questions are you trying to answer with your data set, and why?

Currently students are asked to post in the forum to showcase their projects for CSC 130. This app aims to help students submit their projects with ease. The question I'm trying to answer with my data set is "how can all the projects be submitted in a uniform way?". I'm trying to solve this because I found the forum post to be very messy.

How does your app solve that problem?

The application allows users to enter all the required information. Students can submit their project without forgetting to include any important requirements.

What specific data is involved, and why?

The first data set used will be populated by each individual student. They will submit their full name, project title, a link to the live deploy, a link to the report, and a link to the code repo. The second data set is from an online API that generates lorem ipsum. I'm using the second data set to generate dummy text. The dummy text is something I wanted to use instead of real text for the application.

Where are you going to get that data?

I'm going to get the data from students who want to submit their project using my application, and from an online API called JSON API - Bacon Ipsum.

How are you going to visualize it, and why?

I'm going to visualize the data in cards. Each project will be an individual card. The card will have all the information. The second data set will be visualized as dummy text on the application.

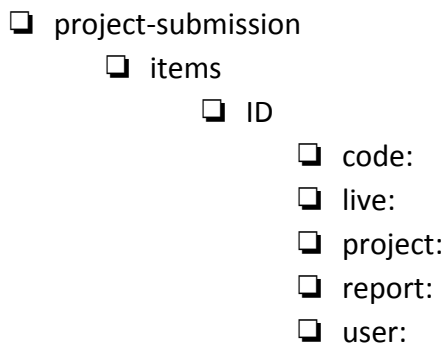
Design

How would you structure your data for processing in your app (what do the objects contain)?

I would structure the data into individual IDs. Each ID would contain an author, a project title, a link to live demo, a link to the report, and a link to the code.

What is the structure of all the backends involved?

Custom Data Source:



ex.

project-submission



Figure 1 - Private Database Example

Other Data Source:

I used a public REST API to grab an all-meat bacon ipsum that was one to three sentence(s) long. The API returned JSON by default.

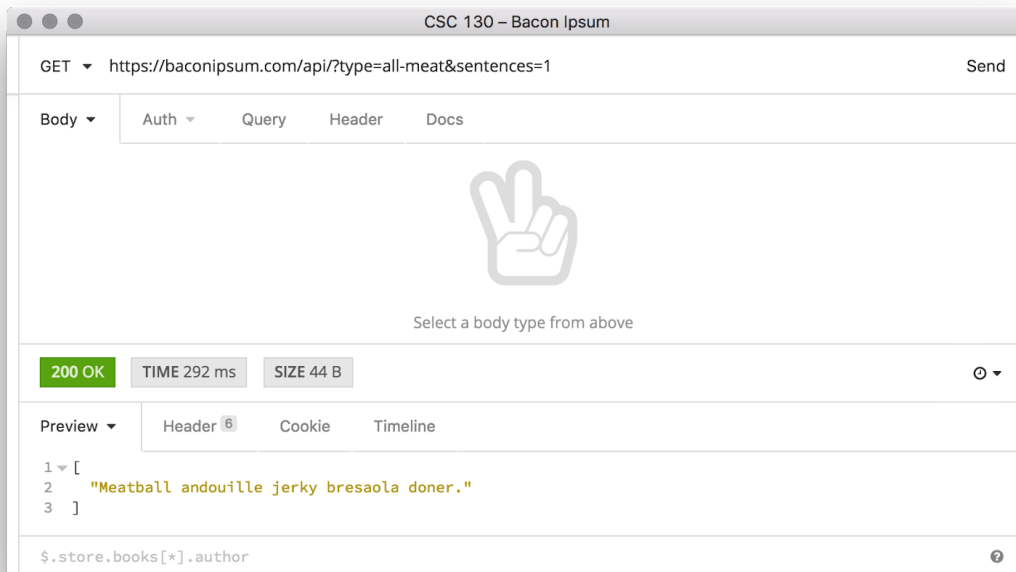


Figure 2 - Open Database Example

What data were you actually able to get for your implementation?

I was able to get the bacon ipsum, but I wasn't able to get the project submissions from other students. This was due to not having permission to ask students to submit using my application.

Testing

What testing did you do along the way for the functionality

I tested the application, by signing in with different accounts and making sure only the authored user could delete their submission. I also submitted different projects to make sure you can submit and delete.

When I went to deploy the website live, I wasn't able to get it to work. I initially wanted to

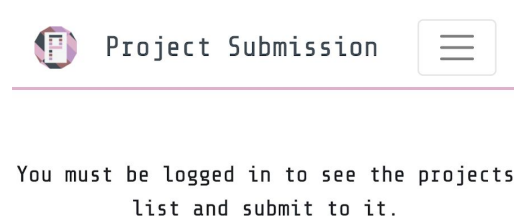
host it with heroku, but I ran into problems with the .env file. Locally it worked, but when deployed the .env file was not added, so I needed to add the config variables into the heroku dashboard. Afterwards, it still didn't work. The login page popup activate, but quickly closed, I google "react app firebase google authentication not working". The result came back with few answers, but I found one where it said I needed to whitelist my heroku app url in the firebase dashboard. Doing this allowed my app to run on the heroku server.

Another thing I tried to do was get it to be a custom domain. I wanted to try firebase hosting, but ran into some problems. The first problem was my app not working on the firebase server. It was missing links in the index.html. The problem was that when hosting with heroku, the heroku command line tool did the `npm run build` step, but the firebase command line tool did not do that step for users. This meant that I needed to run `npm run build` before deploying to firebase. The second was that I needed to validate my domain with google, but the `txt record` would not validate. I wasn't able to solve this problem as I needed to contact support on namecheap and on firebase, so instead I hosted it with my domain on heroku (as I didn't need to validate my domain). This means that my app goes to sleep if it is inactive for more than 30 minutes.

The last problem I encountered was when users logged in. When they logged in they saw the form, but they didn't see any previous submission until they refreshed the page.

Device Testing

I tested the application on multiple device with the chrome browser. I was able to do this with the Chrome Inspect Tools.



Inspiration:

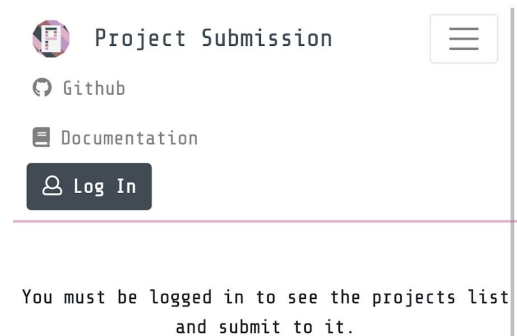
Burgdoggen sirloin turducken, tail hamburger tongue meatloaf ground round leberkas bresaola meatball boudin.

Explanation:

Jerky biltong burgdoggen, deserunt capicola laborum kielbasa do shoulder kevin et ut incididunt. Sed beef ribs capicola, ham hock ut laborum meatloaf. Short ribs ribeye minim aliqua, elit porchetta pancetta ham hock shankle meatball.

About the Project:

Figure 3 - Galaxy s5



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About the Project:

Figure 4 - Pixel 2



Figure 5 - iPhone 6, 7, 8

Submit Project



Inspiration:  Strip steak pork chop shank pig, meatloaf brisket picanha doner filet

Figure 6 - iPhone X

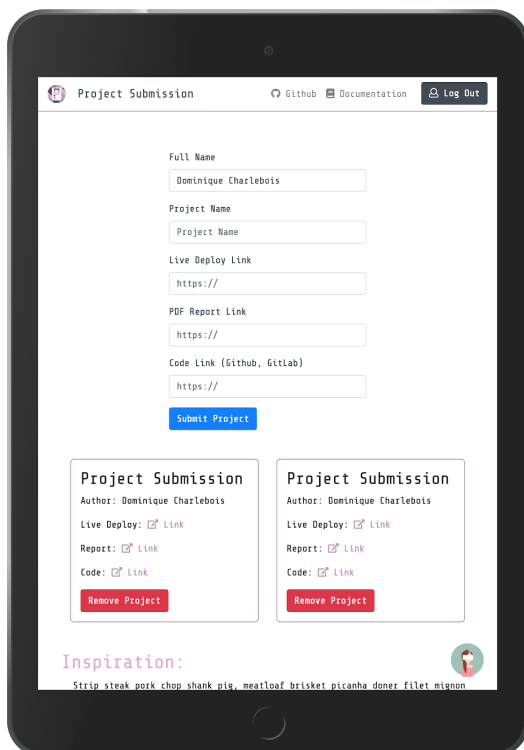


Figure 7 - iPad

Documentation

Proof of Concept & the Big Picture

The big picture for this project is for classes to use this in future submission of projects.

What is left to do?

- Add Rooms (Ex. CSC 130 - Spring 2018)
- Show users submission without them having to refresh
- Host with Firebase (Avoids sleeping servers)
- Let users edit their submission

What obstacles would you have to overcome to do it?

- Have users accounts linked to their course. This will allow users to only access their classes projects.
- Do more research on how to update the project section, without updating the rest of the page. I think I'll need to create components in order to do this. Which will have the problem of passing states throughout components.
- I'd have to follow up with Firebase hosting and solve the domain validating issue.
- Create a button that allows users to edit their submission. The button would take the ID of the submission and resend updated information to the backend.

Implementation

Github: <https://github.com/FlyteWizard/project-submission>

Report:

<https://github.com/FlyteWizard/project-submission/blob/master/report/CSC130-Project2-V00832004.pdf>

README: <https://github.com/FlyteWizard/project-submission/blob/master/README.md>

Website: <http://project-submission.dominiquecharlebois.com/>