Your initial proposal should describe:

the basic content of your project (basic gameplay, subject matter of data visualization, etc)

what technologies or libraries you're tentatively planning to use (Canvas, D3, etc)

APP IDEAS

* MadLib generator and UI
* Pokemon stats display
* Video mask customization
* Product color swapper
* Fridge inventory
* Health symptom 🡨🡪 food recommendations
* Scanner for exact product color

GAME IDEAS

In “The Dressing Room”, users will be able to:

* Try on masks (and eventually other apparel) using their webcam from the comfort of their home.
* See what they look like in a mask product in 3D and in real time.
* Switch masks and color combinations with the click of a button.
* Be linked to a store to buy the mask.

In addition, this project will include:

* Mask customization by uploading a picture and overlaying it on the mask.
* face-api.js
* <https://jeeliz.com/blog/tutorial-javascript-webgl-webcam-facial-filter-on-the-theme-of-matrix/>
* three.js
* clmtrackr
* <https://developer.mozilla.org/en-US/docs/Web/Guide/Audio_and_video_manipulation>
* canvas
* <https://learn.vonage.com/blog/2019/04/03/snapchat-filters-opentok-tracking-js-dr/>
* vonage video api
* tracking.js
* Facebook Spark AR
* AR.js

Wireframe: visual outline of UI – what it will look like

File structure: listing the file/folder structure of code

In “Fridge Alert”, users will be able to:

* Log perishable food items and their approximate expiration date.
* Visualize and check their food items on a smooth web UI.
* Categorize their foods using tags and view their filtered items.
* Scan the barcode of a food to log their food item.

In addition, this project will include:

* Custom alerts to the user when the expiration date is drawing near.
* Provide an estimated expiration date based on the general food item.

In “Poke-Viser”, users will be able to:

* Search for a pokemon and view their stats.
* Select several pokemon and have them displayed with their stats.
* View a selection of pokemon and filter the info they want displayed on the page.

In addition, this project will include:

* Pokemon size comparisons visually represented in relative scale.
* A filter to find a recommended pokemon to use in a battle against a chosen pokemon.

I plan to use the following resources:

* <https://github.com/ZeChrales/PogoAssets>
* <https://pokeapi.co/>
* Pokedex example
  + <https://www.jamesqquick.com/blog/build-a-pokedex-with-vanilla-javascript-part-2>
* <https://bulbapedia.bulbagarden.net/wiki/Special:ApiSandbox>
  + <https://bulbapedia.bulbagarden.net/w/api.php?action=help&modules=query%2Bdeletedrevs>
* Code along
  + <https://www.youtube.com/watch?v=Y2a0Xv3giho>
* Images
  + https://pokeres.bastionbot.org/images/pokemon/1.png