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Olimination Introduction

Re-introduce our project idea and team members.

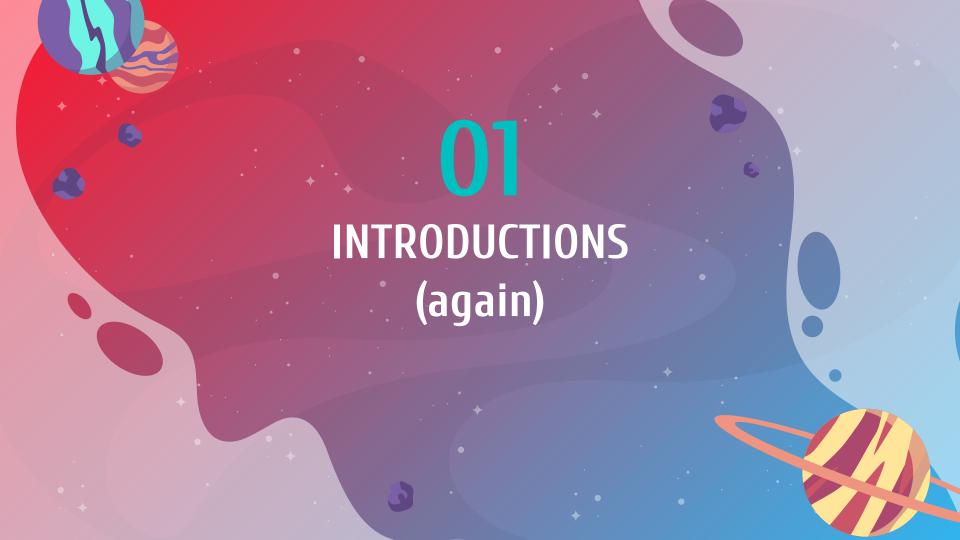
103 LIVE DEMO

Demonstrate our application design and current features.

02 PRESENTATION

A more in-depth look at our progress thus far.

O4 FUTURE PLANSTimeline and plans for finishing our application.



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Our Team

"Crusading Towards a more Renewable Future"



Dani DiTomas<u>so</u>

Front-End Developer



Daniel Dorticos-Rossi

Full-Stack Developer



Eric Carson

Back-End Developer



Yousif Moftah

Back-End Developer



Jordan Oberstein

Back-End Developer

Project Recap

- Display Surface Skin
 Temperature and Wind Speed in
 the state of New York in an
 easy to understand fashion.
- The user can draw their own conclusions as to where the best location to place renewable energy sources would be.

- Part 1: Learning Modules will be available for K-12 educators to use as learning supplements
- Part 2: Data Visualization components will allow users to explore data



CURRENT PROGRESS

What we've done so far and changes we've made.

Front-End Development

HTML/CSS

The main design of our application is in HTML and CSS.

In order to customize our website further than what bootstrap provides, the addition of "!important" was useful in overriding some of the predetermined CSS.

BOOTSTRAP

Bootstrap was utilized extensively to create our navbar, footer with all of NASA's socials, and in the creation of our cards for the dynamic layout of our page.

REACT/JAVASCRIPT

React and Javascript
were used to create the
layout for our
application elements
found in the Surface
Temperature Data page,
the Wind Velocity Data
page, and our
Educational Resources
page.

•Education Page

With guidance from NYS regents testing material and educator feedback, we have decided to make a renewable energy modules page which includes:

- Key Renewable Energy terms
- A fun module for students to visualize data

Data Exploration

Learning Modules supplemented with Data Visualization

- Wind Velocity Data over 1 year
- Surface Temperature Data over 1 year
- Planned scope: New York State

Presented currently as slider component to display change over time

 Allows for exploration of questions such as potential seasonal performance or intensity in different seasons

Learning Modules

Inspiration from AP Environmental Science resources such as BioMan Biology to create interactive component

- "Path of a Proton"
- Path 1: Solar Energy
- Path 2: Wind Energy

Division of difficulty by grade (K-6, 7-8, 9-12, AP Env Sci)







FUTURE PLANS

Where we plan to take our project from here.

MongoDB Database

Data for Educational Resources Page

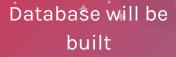
We plan to build our own database and keep useful information, links, and learning modules for each category under our Educational Resources page for easy call access to our front-end.

Express / Node API

Talk about development of API and how we will pull / use the data.

- Key Renewable Energy terms
- A fun module for students to visualize data

PROJECT TIMELINE



APR 15



Final
Presentation and
demonstration

APR 28



API will be completed



APR 22

Full integration of front-end to back-end













THANK YOU! Any Questions?

