

Meet the cyber crusaders!



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Project summary

 Display Surface 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.



users



EDUCATOR

- Formal K-16 educator, or with an informal organization.
- Has limited experience using NASA Earth Science data, but would like to download and utilize data for their environment.



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Most likely will access data through the educators instruction.



 Expectation of capability to download data visualizations or download data in specific file formats; can link different types of data or even overlay data sets.







Data interested civilians

• Our website still serves as an easily accessible hub for useful organized data.

NASA

Access to a more concise set of data for New York surface temperature and wind velocity



Can be used for educator or informational programs





Data Analysts

- Experienced Data Analysts can analyze results of data to advise inexperienced users on energy decision making.
- Can similarly be used by engineers to determine scale of energy systems when designing power plants.



Technologies

HTML







CSS

NODe/EXPress





MONGODB

Javascript

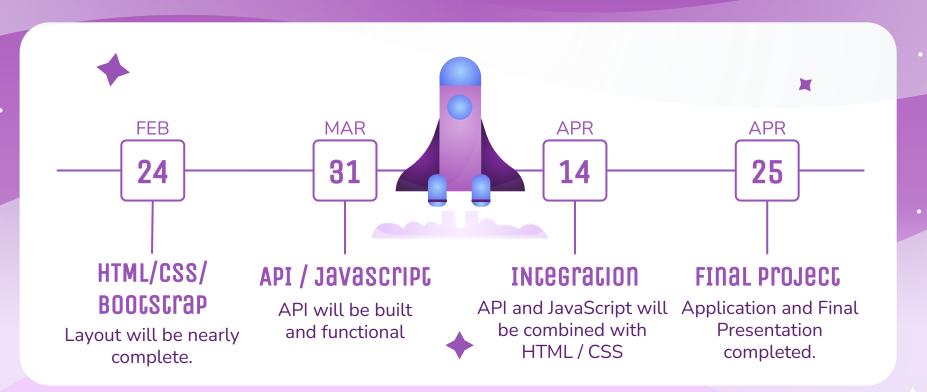






BOOCSCrap

Project timeline



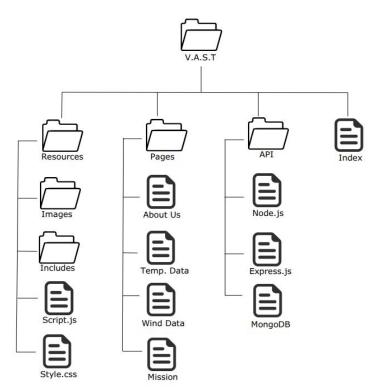
FUNCTIONAL VS NONFUNCTIONAL REQUIREMENTS

category	OBJECTIVE	visualization
Functional	Display Surface Temperature and Wind Speed in the state of New York	Data Displays New York data over specific time period
Nonfunctional	Pull data from NASA website for filtration and organization	Use API to organize filtered data to allow easy access of provided data

FUNCTIONAL VS NONFUNCTIONAL REQUIREMENTS

category	Analysis	Tescing
Functional	Users can interpret conclusions from data displayed	Feedback from users with and without data experience including instructors
Nonfunctional	Data will be presented as a listing of data from the API without conclusive analysis	Vulnerability testing (Zap) Consistent API organization

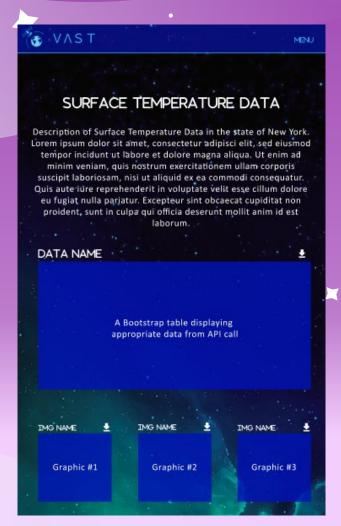
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WITEFTAME (HOME PAGE)





(Data Page)

THANK YOU! Any Questions?