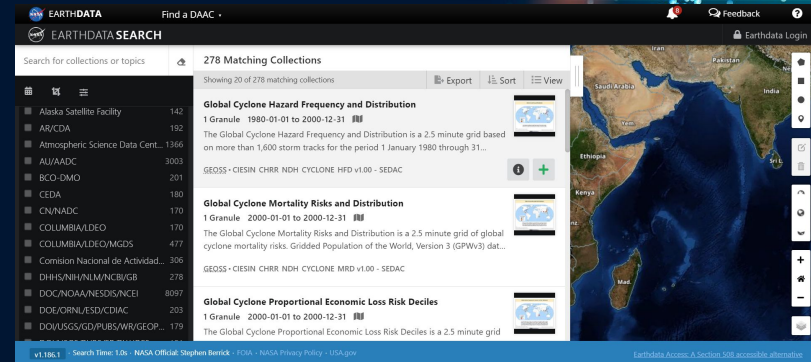


Energy Explorer

Team: Spam W

Veevek Dave, Mei Huang, Yash Choksey, Rashona
Yang, Oluwapamilerin Amuda

The current NASA data paths and archives are getting in the way of Citizen Science.



What is



Energy Explorer is a website that aims to reduce the barrier to entry for the general public. Focusing on what renewable energy sources are “viable” for a given region

Stakeholders And Users

- National Aeronautics and Space Administration (NASA)
- Rensselaer Polytechnic Institute (RPI)
- RPI Students
- Professor Callahan
- Citizen Scientists
- Science Interested
- General Public

Personas



Bobby the Scientist

Bobby is a scientist at NASA and he's researching ways to increase Nasa's internal usage of Bio thermal energy to reduce climate change



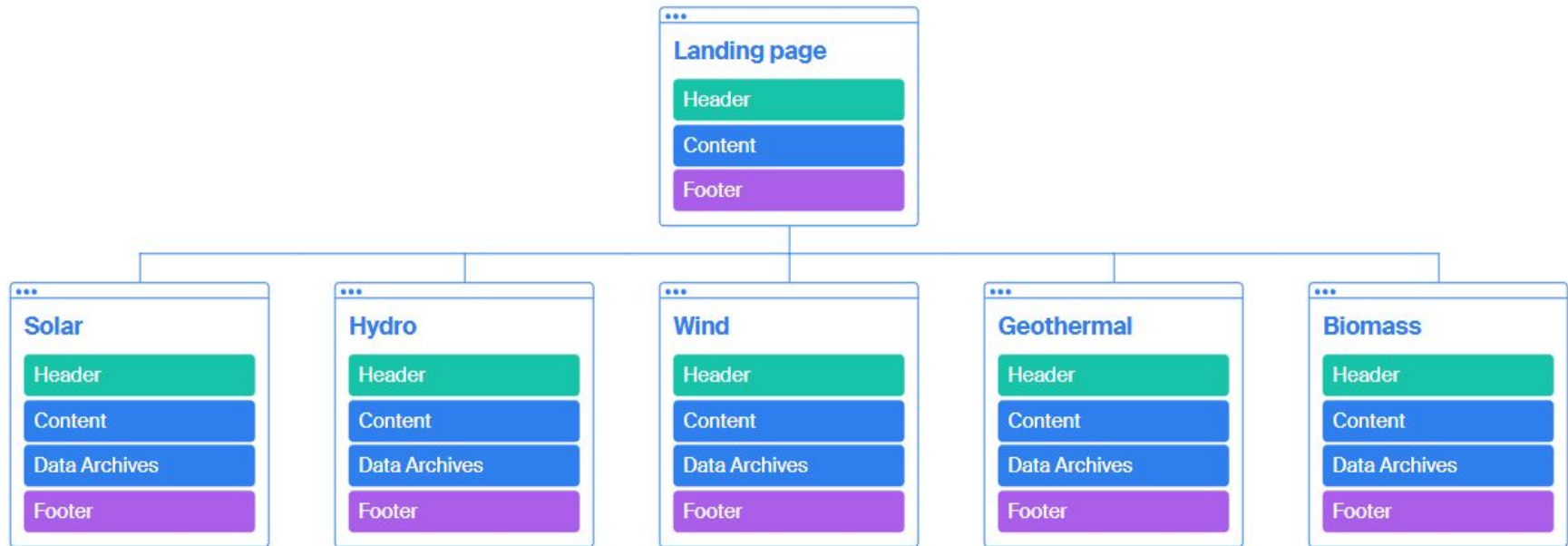
Sammy the Student

Sammy is a student in high school and he's just learnt about Solar energy in science class. He's curious and wants to learn more.

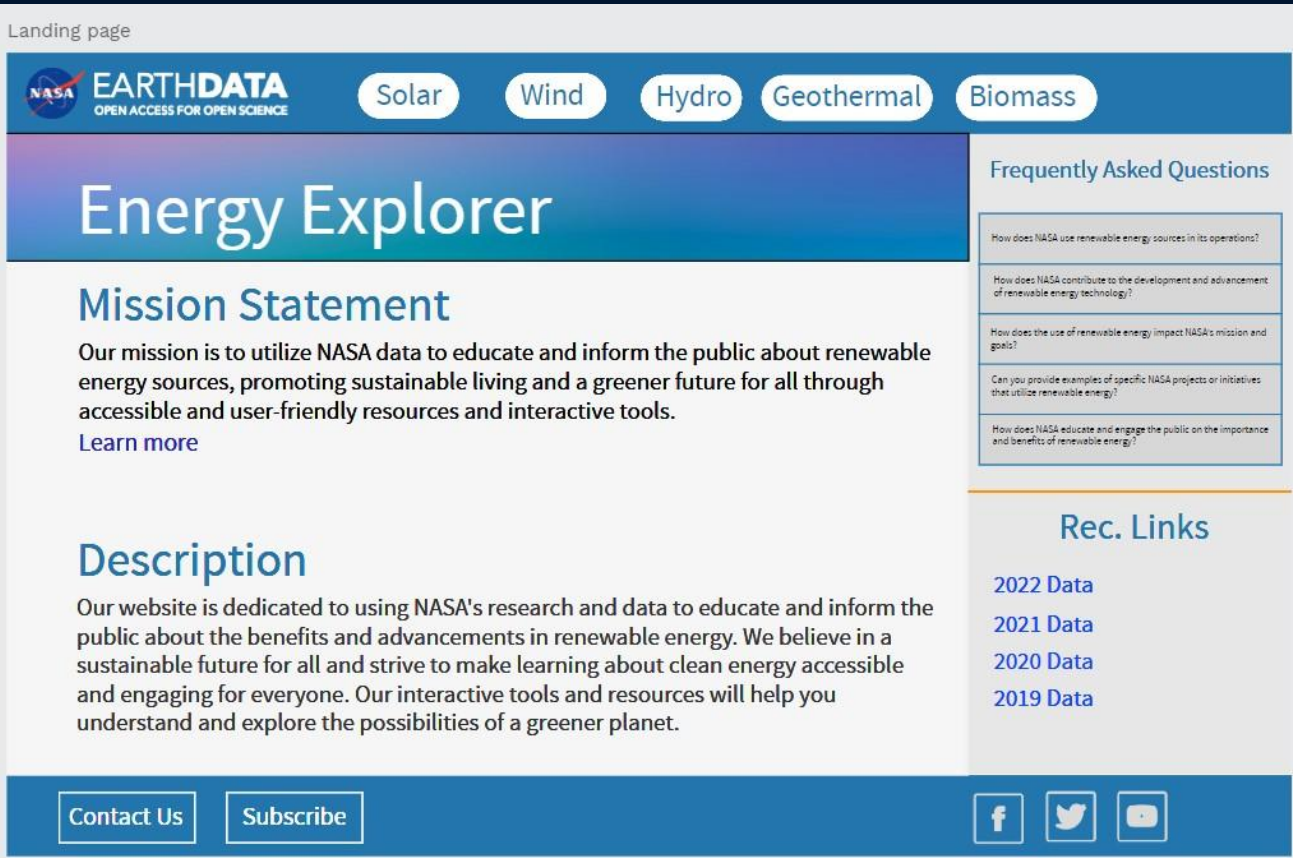
Personas (cont.)

- Energy Explorer is able to serve both personas even though they have varied need. Because the data is so accessible and streamlined can help both our personas by giving them access to the data they need in concise and accessible ways

Site Map



Wireframe



Wireframe

Specific energy page



Solar

Wind

Hydro

Geothermal

Biomass

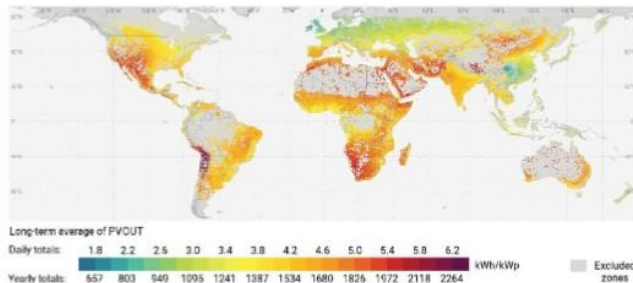
Solar Energy

Solar energy is harnessed from the sun's rays through the use of solar panels. It is a clean, renewable source of power that does not produce emissions or pollutants. It can be used to power homes and buildings.

[Learn more](#)

2017 Data

Data
Data
Data
Data
Data
Data



Data Archives

2020 2019 2018

2017 2016 2015

2014 2013 2012

2011 2010 2009

2008 2007 2006

2018 2004 2003

Contact Us

Subscribe



Functional Requirement

- People: Users must be able to navigate the Energy Explorer data pathfinder with ease on their device(s).
- Process: a Landing Page and associated pages for the different types
 - Navigable, Selectable, Accessible, Searchable
- User Interface: The user interface must be similar to current pathfinders and be intuitive to use for the general public.

Non Functional Requirement

- Software: Cross Platform
- Data Collection + Storage: store and fetch updated or additional NASA data relevant to their pathfinder.
- User Experience: ensure accessibility and iterative testing
- Performance: handle regular expected traffic
- Scalability: scale as the amount of data and users
- Maintainability: maintainable within the next 5 years

Tech Stack



Mongo DB



Express



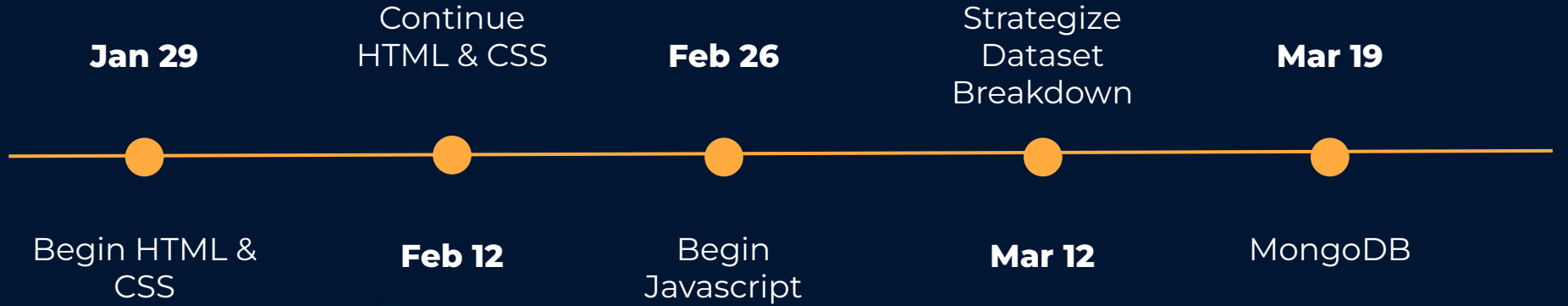
Angular



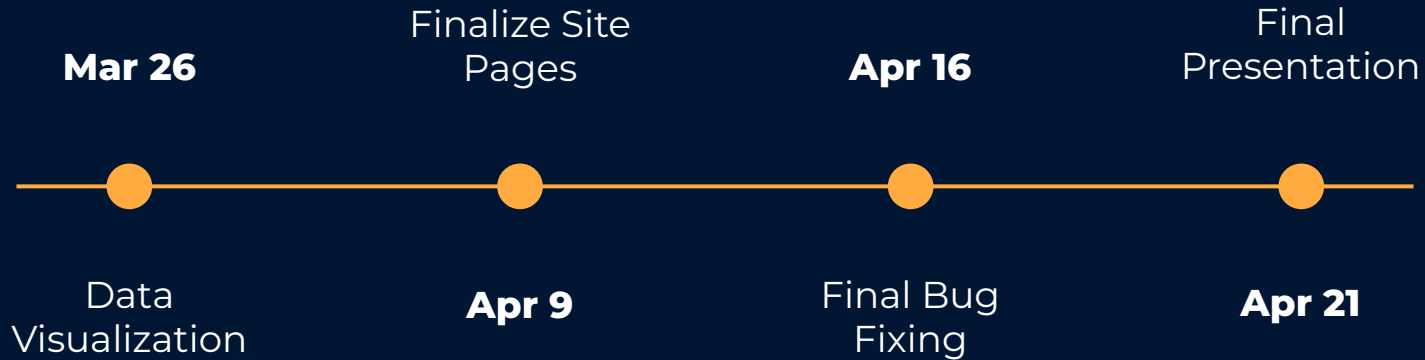
Node

MEAN STACK

TIMELINE (1/2)



TIMELINE (2/2)





SPAMW

**Thank you
Questions?**