Team/Instructor scrum #4

Team member & project (re)introductions

A tool that utilizes building energy consumption metrics and solar intensity data to calculate accurate ROIs on solar power generation. This tool will allow customers to see how different photovoltaic (PV) systems match up to their requirements, so they can make informed decisions. This tool could also utilize this data, once installed, to ensure that the solar power generation is meeting standards, and if not, alert the customer of an issue such as snow blockages, cracks, etc. There could also be an extension into other Greenwave business domains, such as power storage sizing for cloudy days and the night time.

Roles/Responsibilities

Tristan - data representation, meeting coordinator, server/web management, back-end design

Karlee - documentation, GitHub/wiki management, front-end design, meeting minutes

Kaden - data processing/management, vlog editor, back-end design

Scrum dates

Oct. 29, 2021 - Nov. 26, 2021

Status description

Project Status - Green

We feel like we are “on track”. We have a working webpage and solar calculation model.

Team Member Contributions

Tristan - Set up EC2 server and project structure, Connect visualization with APIs, Integrate visualization with user inputs

Karlee - Gantt Chart, Hi-fi UI prototypes, Pick front-end technology and start experimenting with it, Front-end development, Meeting minutes

Kaden - Power estimation model and calculations (Python Script)

Group - Met with Greenwave Innovations, Working demo

Project issues/changes

- No major issues or changes with our project

Documentation overview and/or project demo

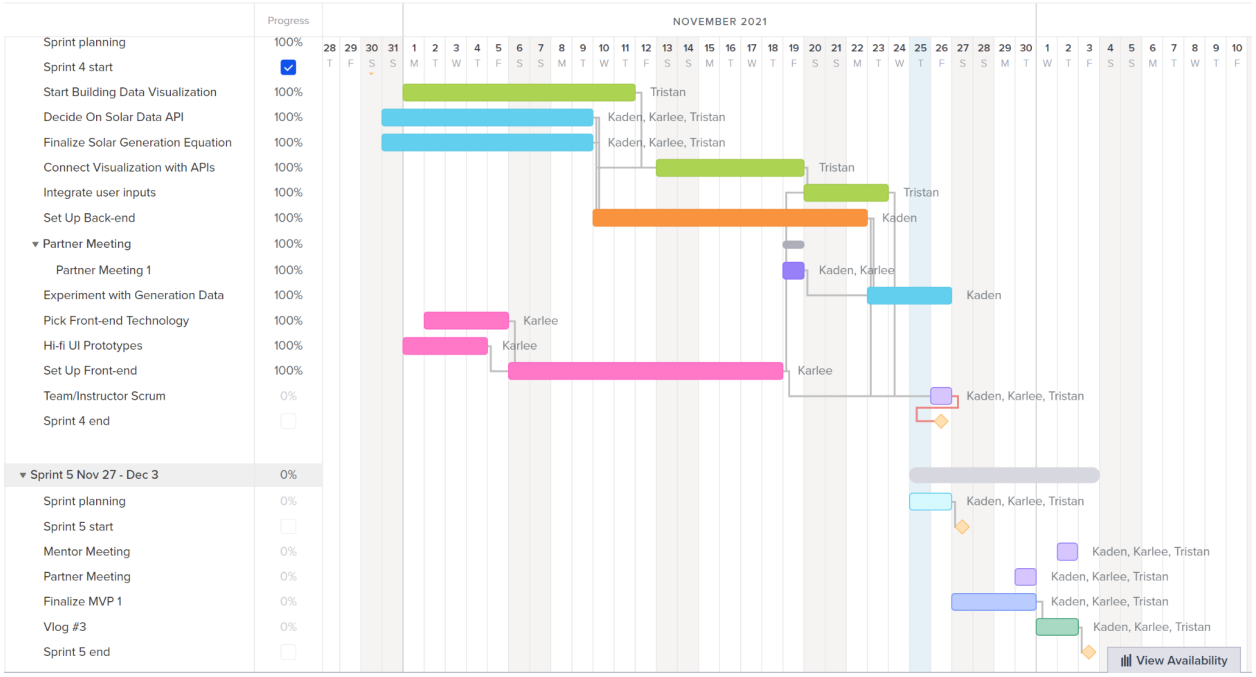
- Front-end Technology Decision Matrix

Front-end Development Language

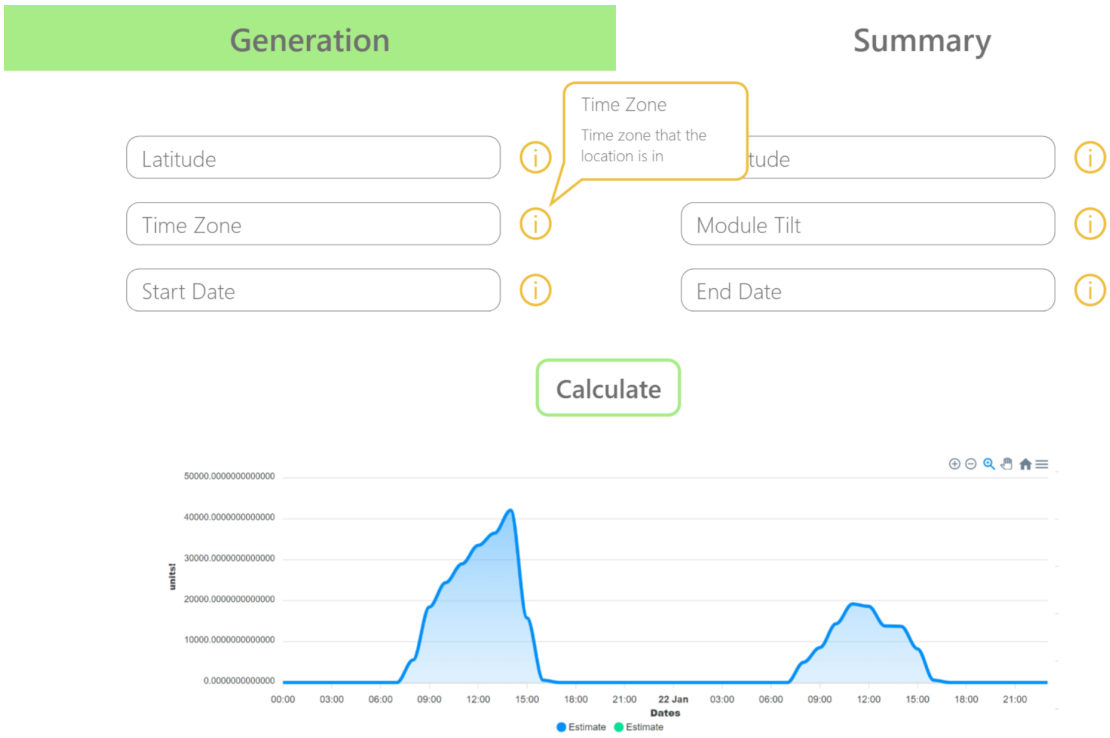
	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5	
CRITERIA DESCRIPTION	Learnability	Documentation	Support	Functionality	Performance	
	Criteria 1	Criteria 2	Criteria 3	Criteria 4	Criteria 5	WEIGHTED SCORE
WEIGHT	4	4	2	3	2	15
	27%	27%	13%	20%	13%	100%
OPTIONS	Criteria 1 SCORES	Criteria 2 SCORES	Criteria 3 SCORES	Criteria 4 SCORES	Criteria 5 SCORES	
React	2	2	5	5	4	3
Vue.js	5	5	3	4	5	5

Verdict:
Due to learnability and documentation,
Vue seems like the best option for our project

- Gantt Chart



- Hi-fi Prototypes (example page shown)



- Webpage demo

Next up

Overview of next several weeks: back-end development, front-end development, data visualization, finalize MVP 1, and begin work on MVP 2

Tristan - Add comparison information, Add summary page, Add error handling, Look into caching inputs

Karlee - UI improvements, Add learning information to UI, Documentation, Meeting minutes

Kaden - Improve power estimation model

Group - Meet with Greenwave Innovations, Meet with Dr. Yow, Finalize MVP 1, Vlog 3

Team reflection

Discuss:

- Does the team feel "on track"? (reiterate the above colour status)
    - Green status
    - Yes, we feel like we are “on track”
- What progress does the team particularly feel good (great) about?
    - We are almost done MVP 1
- What barriers (if any) does the team feel are a current impediment to success?
    - Slow API could become a problem
- What help (if any) does the team require to move positively forward?
    - None
- What questions or concerns does the team have (if any)?
    - No questions at this time