

SolarSize - Vlog #2 Script

Team member (re)introductions

Tristan Brown-Hannibal

- Data representation
- Server/web management
- Back-End Design

Karlee Fidek

- Documentation
- GitHub/Wiki Management
- Front-End Design
- Database Design

Kaden Goski

- Data Processing/Management
- Back-End Design
- Vlog Editor

Brief project blurb

We will be working with a local company, Greenwave Innovations, to develop 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.

Business Need/Opportunity

The problem is that there is not a good way to quickly size the needs of a customer, with respect to their individual circumstances. Two organizations may use the same amount of power, but the PV solution may be completely different. This is because of aspects like the solar intensity of a location, or the physical makeup of an organization's space, where they would install these solar generators. Being able to profile, and give accurate information about a solar solution, would help customers make better choices, and maximize their ROI.

Project activity dates

September 10, 2021 - October 15, 2021

Project activity

September 10, 2021 - October 4, 2021

We completed documentation and initial planning for our original charity finder project idea. We completed our first scrum and vlog on this project. After meeting with Dr. Yow, we began looking into other ideas for our project.

October 4, 2021 - October 15, 2021

Karlee reached out to Greenwave Innovations and arranged a project proposal meeting with them. We decided to accept their project proposal and switch our project. Following this decision, we redid the initial documentation and our first vlog with respect to the new “SolarSize” project idea. Our second scrum was completed for this project and we have since begun to look into solar intensity data resources and solar production equations.

Tristan Brown-Hannibal

- RACI
- Stakeholder Analysis
- Empathy Map
- Business Case
- USM

Karlee Fidek

- Project charter
- Documentation guidelines
- Roles and responsibilities
- Set up Trello workspace

Kaden Goski

- Scope
- Requirements
- Data Flow

Group

- Meeting with Greenwave
- Research into estimating solar generation from generalized data

- Re-recorded Vlog #1
- Redo documentation
- Initial Plan - Char - Changed after a couple scrums and meeting with Dr. Yow, Met with Greenwave.

Status description

Project Status - Yellow (slightly off track)

Since we have changed our project idea, we are slightly behind based on the loose expectations outlined in the syllabus. We have caught up to where we were last scrum with our old project, so we should be able to get back on track in the next couple weeks. We are now in-between weekly goals. We plan to meet with Greenwave next week to gain more insight into their processes and system stack. From there, we can explore their technology and begin to look at our possible system architecture.

Project issues

- Source for solar generation data
- Equations for solar production calculation
- Integrating with an existing company and understanding their process is difficult

Project changes

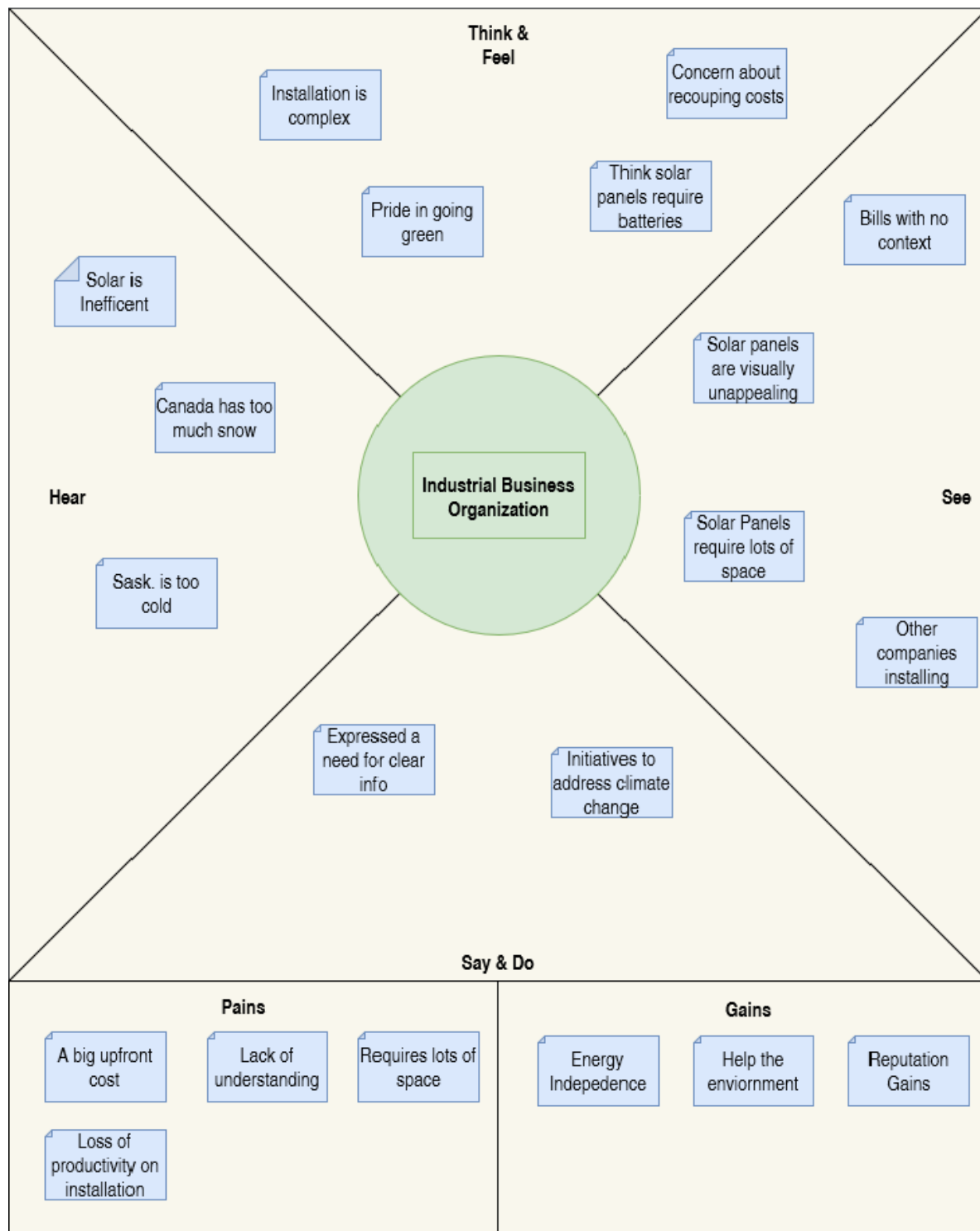
- Changed our project idea

Documentation overview and/or project demo

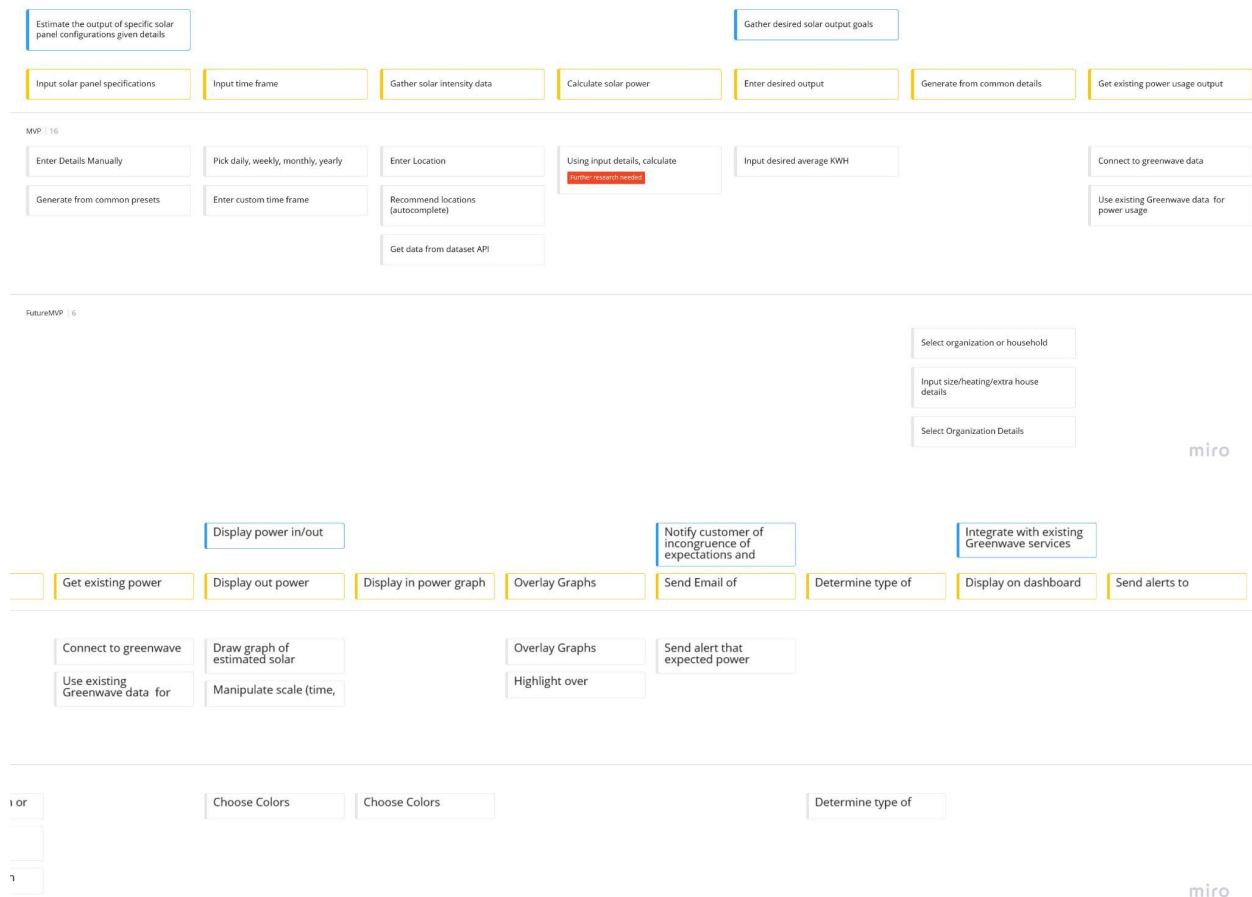
Documentation overview:

- Business Case
- Project Charter
- Project Roles and Responsibilities
- Project Documentation Guidelines
- Project Scope Statement
- Project Requirements
- Stakeholder Analysis
- RACI Chart

Empathy Map



USM



Next up

Overview of next several weeks: business/process, data flow, envisioned class, low and high fidelity prototypes, project roadmap, and MVP 1

Tristan Brown-Hannibal

- Gain access to Greenwave's data
- Explore tools which allow for data visualization (graphs) for web pages

Karlee Fidek

- Lo-fi UI prototypes
- Gain access to Greenwave's data
- Explore Greenwave's technology stack specifically regarding their user interface and data

Kaden Goski

- Create database schemas based on GreenWave data

- Explore Solar Intensity Data Sources

Group

- Meet with Greenwave Innovations
- Meet with Dr. Yow
- Sign Greenwave capstone agreements
- Research solar production calculations
- Explore solar intensity APIs

Team reflection

Discuss:

- Does the team feel "on track"? (reiterate the above colour status)
 - Yellow Status
 - We are slightly behind due to the fact that we changed our project idea. However, we feel that we can get back on track over the next few weeks
- What progress does the team particularly feel good (great) about?
 - We were able to get back to the point we were at with our old project and dive a little deeper into this project
- What barriers (if any) does the team feel are a current impediment to success?
 - Source for solar generation data
 - Equations for solar production calculation
 - Integration with existing Greenwave stack and understanding their processes
- What help (if any) does the team require to move positively forward?
 - Guidance from Greenwave Innovations which will be received in coming meetings
- What questions or concerns does the team have (if any)?
 - No questions at this time