GridGPT

Lightning Talk 6

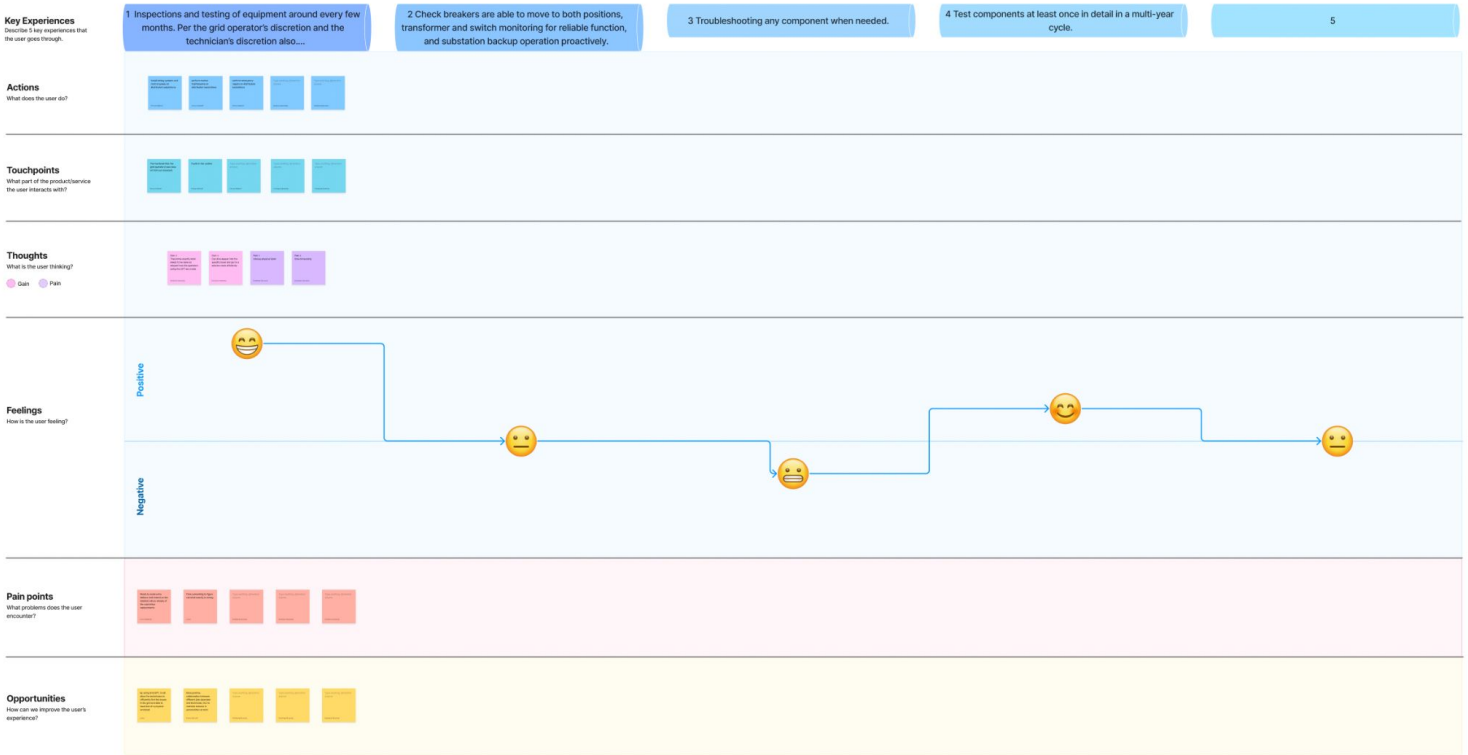
Project Overview

- Simplifies power grid management through AI-based solutions.
- Streamlines the complex and ever evolving power system data.
- Translates DSS scripts into natural language for ease of understanding by power plant employees.

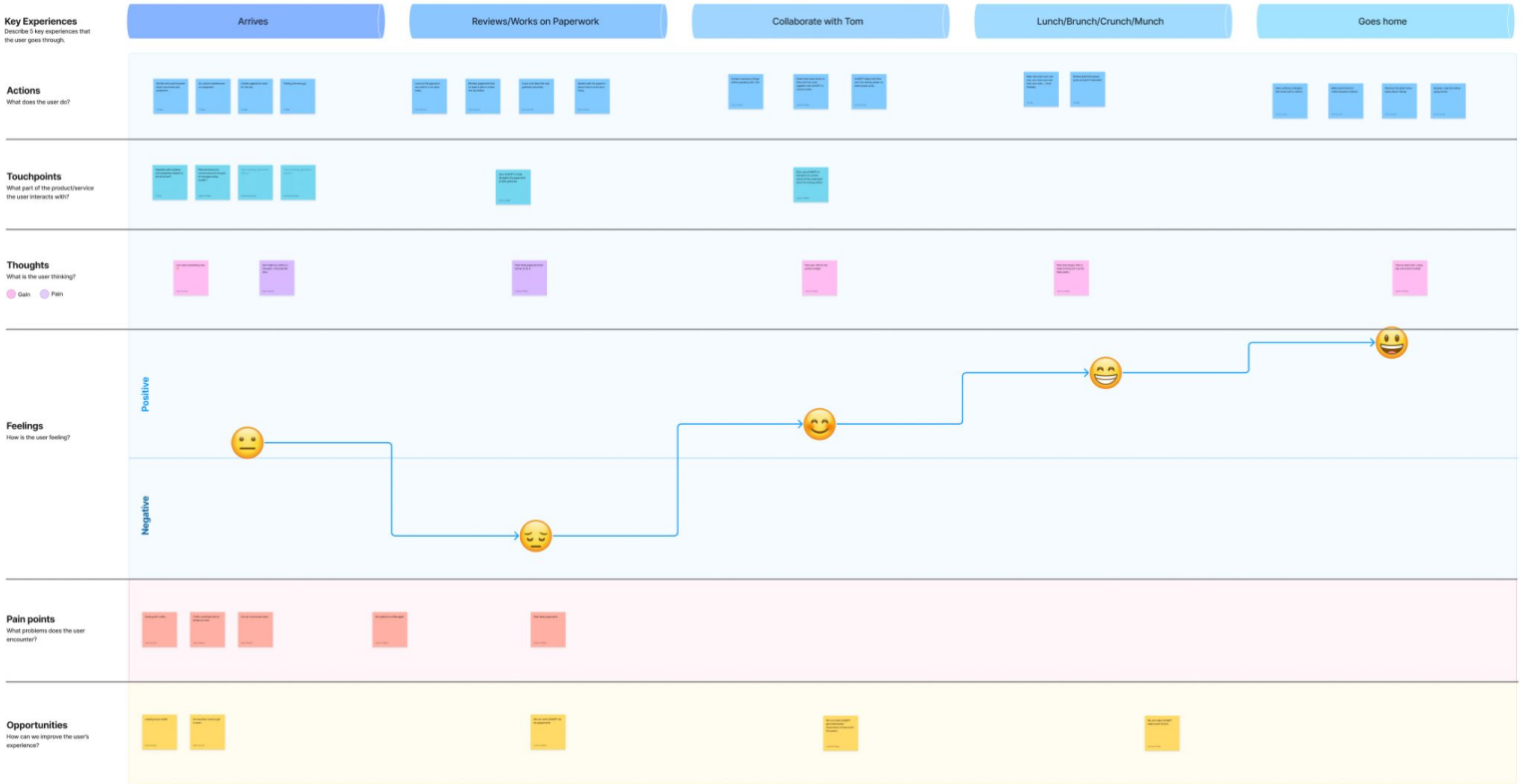
Artifacts created by the Team in class

- The following slides are artifacts that our team has created during class in Senior Design. They include:
  - Journey Maps for our users
  - Market Research
  - Lotus Diagram
  - Task Decomposition
  - Gantt Chart
- Most of these artifacts are subject to change as we progress forward through the development.

Journey Map for our user Technical Tom



Journey Map for our user Power Plant Pete

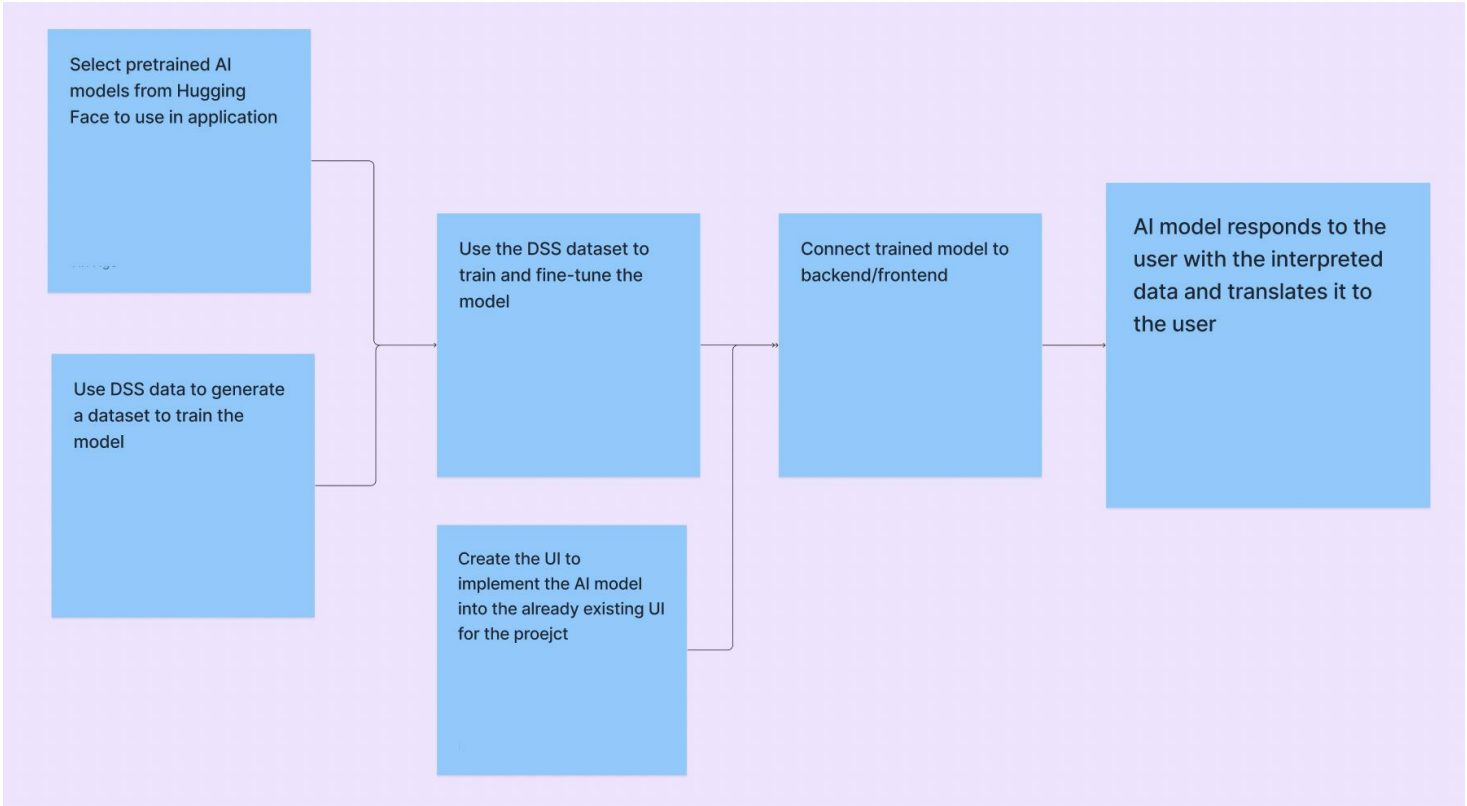


Market Research

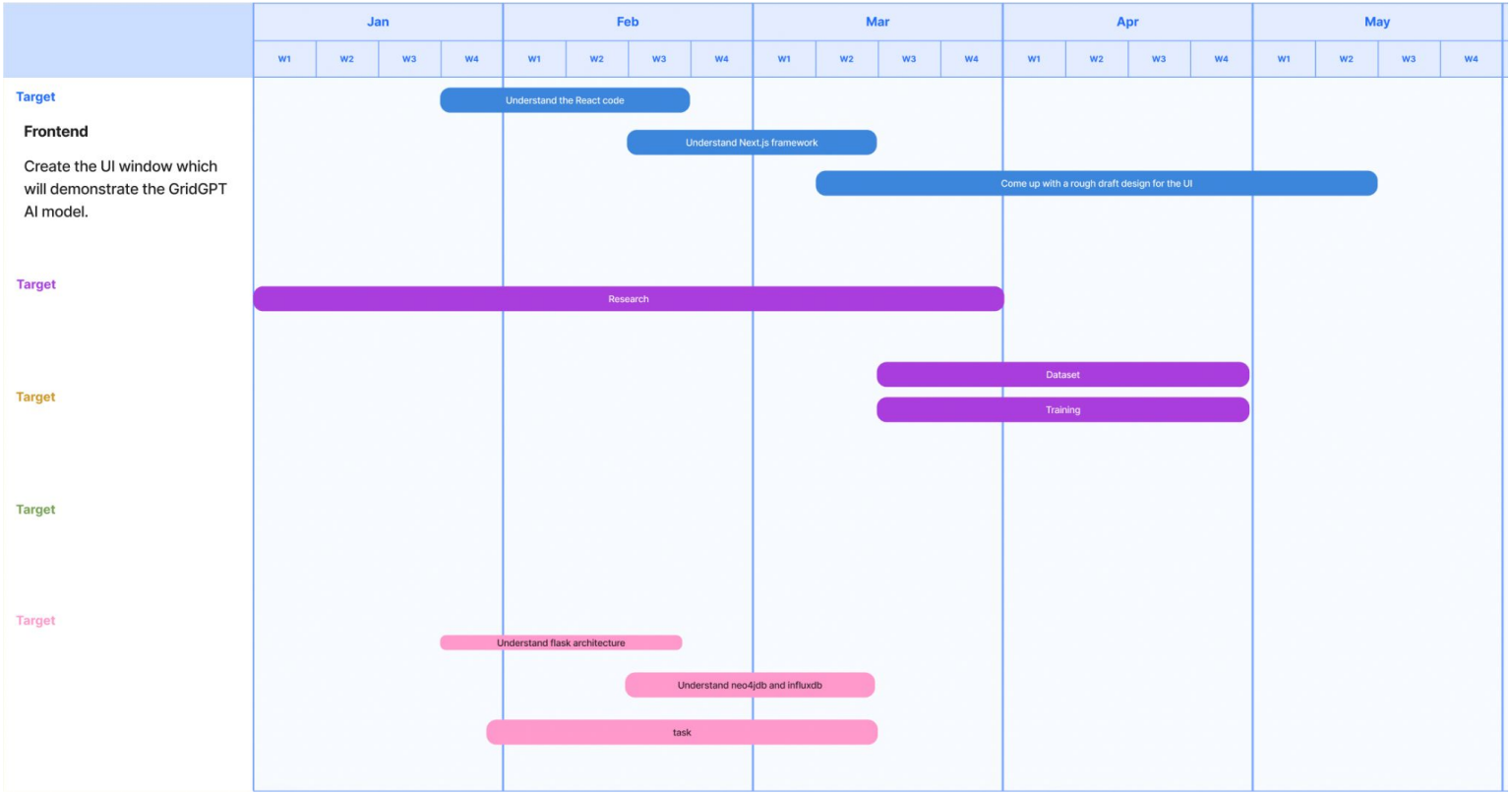
Market Research cont.

Lotus Diagram

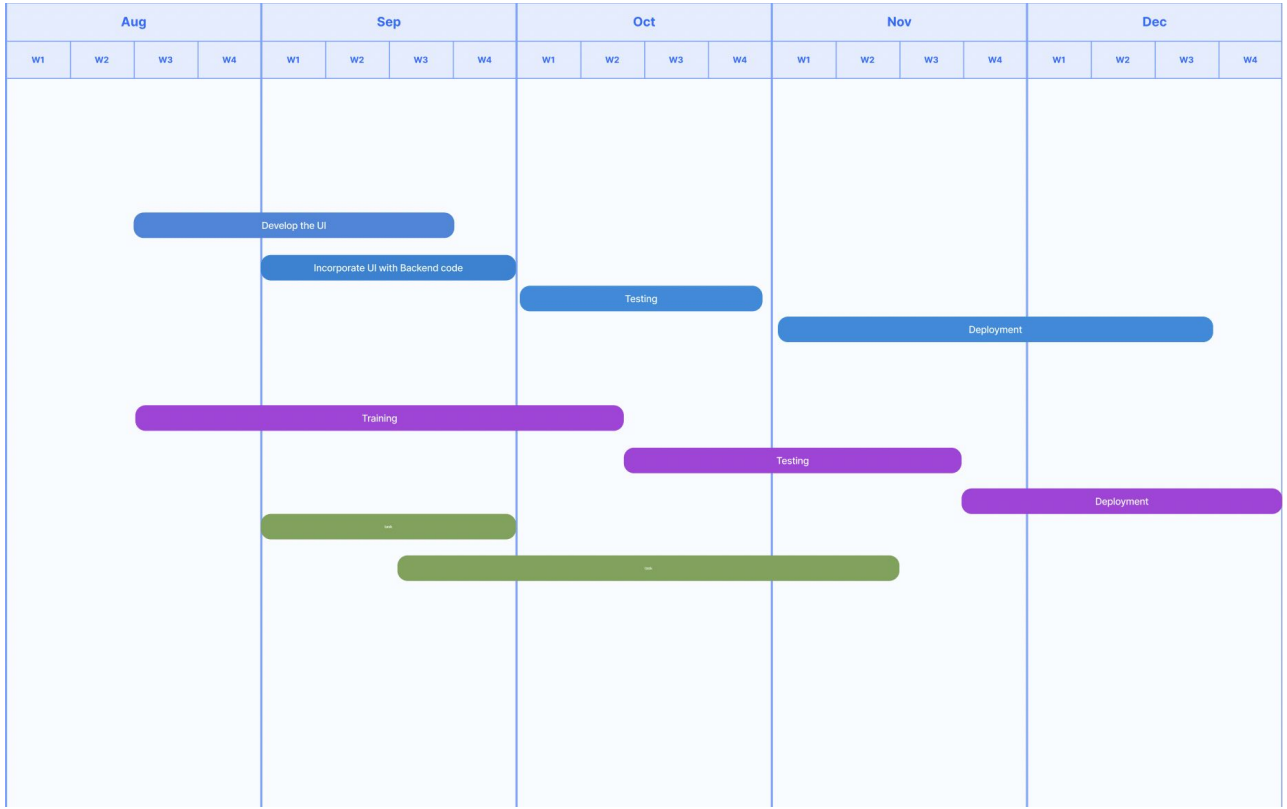
Task Decomposition



Gantt Chart (491)

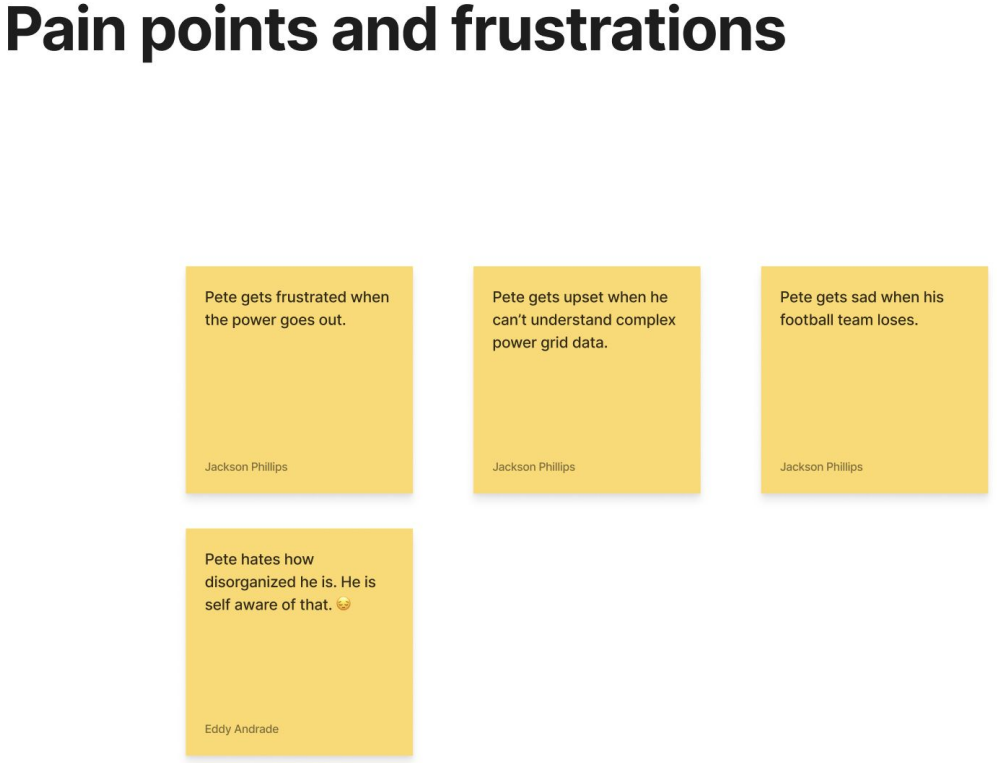


Gantt Chart (492)



Human Aspects

- Key Points:
  - User Challenges Identified:
    - Overwhelmed by the complexity of DSS script data.
    - Struggle to extract actionable insights from vast data sets.
  - AI Solution Response:
    - AI Chatbot Assistant: Tailored to simplify data interpretation.
    - Direct address of user frustrations by transforming complex data into accessible insights.
  - Looking Ahead:
    - Considering user feedback for future enhancements.
    - Potential for AI autonomy to further alleviate user challenges.
- Impact:
  - Significantly reduces the cognitive load on users.
  - Empowers users to focus on higher-level analysis and decision-making.



Economic

Currently grid operators must learn everything about DSS python scripts in order to create grid models. With our solution we will be able to cut down on the time grid operators need to be trained on the DSS scripts and the time to write the scripts for the grid models. Our AI model will also be less likely to make simple mistakes like humans do when writing code. Overall our solution will save a lot of time and create less problems which will save lots of money.