Ideation
PhaseEmpathize&Dis
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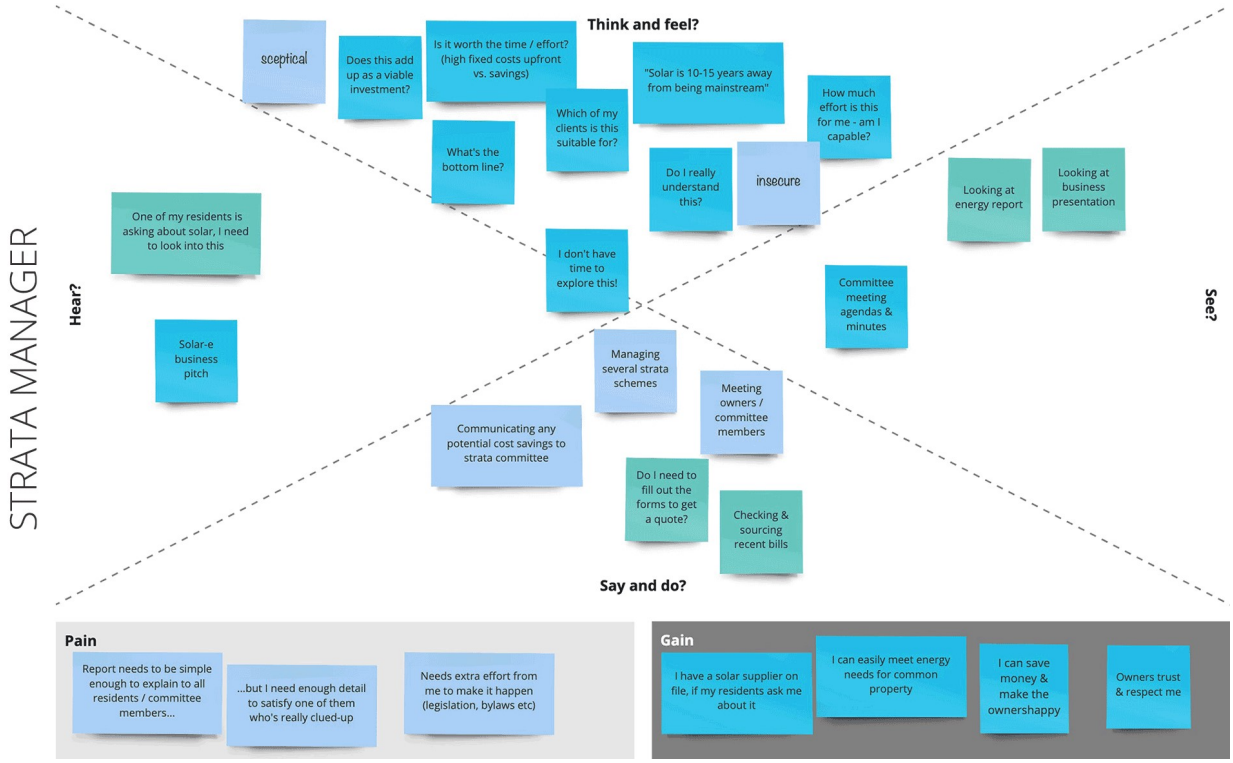
Date	03oct2023
Team ID	85555168A5DB7B6B4584918BDF691CFF
ProjectName	Solar Panel Forecasting
MaximumMarks	4 Marks

EmpathyMapCanvas:

Who are we empathizing with?
Solar panel owners or operators who are responsible for managing and optimizing the performance of their solar panel installations.



What do they see?

Data from solar panel performance monitoring systems.
Variations in energy generation patterns throughout the day, month, and year.
Fluctuations in weather conditions that impact solar panel performance.
Challenges in accurately predicting the future energy generation of their panels.

What do they hear?

Feedback and concerns from energy traders, grid operators, or other stakeholders regarding the reliability and accuracy of their energy generation forecasts.
Information about the latest advancements in solar panel forecasting techniques.
Reports of other solar panel owners facing similar challenges and seeking solutions.

What do they think and feel?

Concerns about optimizing the performance and efficiency of their solar panels to maximize energy generation and return on investment.
Frustration with the limitations of current forecasting methods and their impact on decision-making.
Curiosity and interest in finding more accurate and reliable forecasting solutions.
Desire to stay informed about technological advancements in solar panel forecasting.

What do they say and do?

Seek information and advice from experts, industry professionals, or online communities about improving solar panel forecasting accuracy.
Engage in discussions with peers or industry stakeholders to share experiences and learn from best practices.
Explore different forecasting tools and technologies available in the market.
Express interest in adopting innovative forecasting solutions that can optimize their solar panel operations.
Pain Points:

Inaccurate forecasts leading to suboptimal energy generation and financial losses.
Limited visibility into future energy generation patterns and challenges in planning for maintenance or replacements.
Difficulty in integrating weather data and other relevant variables into forecasting models.
Lack of user-friendly tools and interfaces for accessing and analyzing forecasting data.
Gains:

Accurate and reliable forecasts that enable optimal planning and decision-making for maintenance, replacements, and energy trading activities.
Increased confidence in the performance and long-term viability of their solar panel installations.
Enhanced grid integration and optimized utilization of solar energy resources.
Access to user-friendly and intuitive forecasting tools that simplify data analysis and interpretation.