

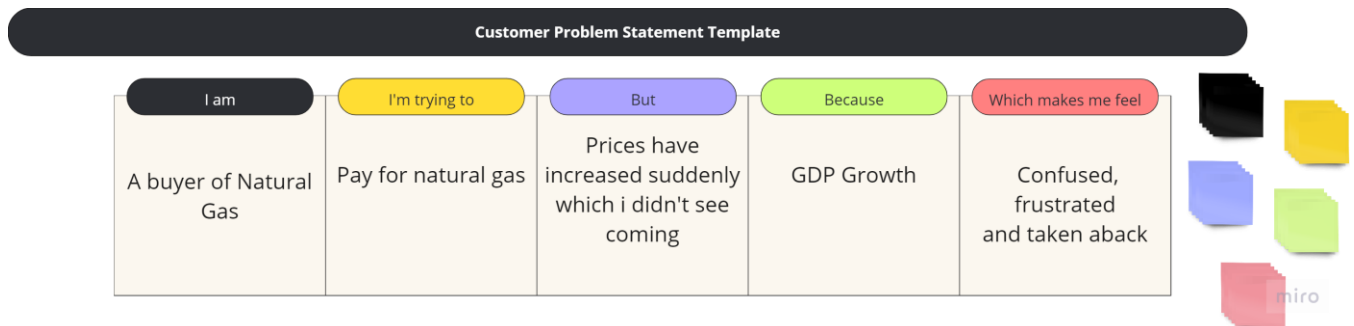
## Project Initialization and Planning Phase

Date	11 July 2024
Team ID	SWTID1720359900
Project Name	Machine Learning Approach For Predicting The Price Of Natural Gas
Maximum Marks	3 Marks

### Define Problem Statements (Customer Problem Statement Template):

The current model used for predicting natural gas prices is highly volatile and unreliable. With the changing environmental, economic and other factors, it doesn't show accurately the fluctuations that the prices inculcate. This results in sudden and unexpected price fluctuations which makes the customers anxious and lose faith in our predictions. Through this project, we are aiming to develop a machine learning model that learns patterns and relationships to predict the natural gas prices at all costs by harnessing historical price data along with relevant contextual information. This problem of inaccuracy mainly arises when there is a sudden change in the surrounding which was uncalled for. Natural gas prices are influenced by various factors, such as supply and demand dynamics, geopolitical events, weather conditions, and economic indicators which leaves the customers in a dilemma and perplexed with sudden increases in prices and removes their faith in prediction models.

### Example:



Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	A buyer of natural gas	Pay for natural gas	Prices have increased suddenly which I didn't see coming	GDP growth	Confused, frustrated and taken aback