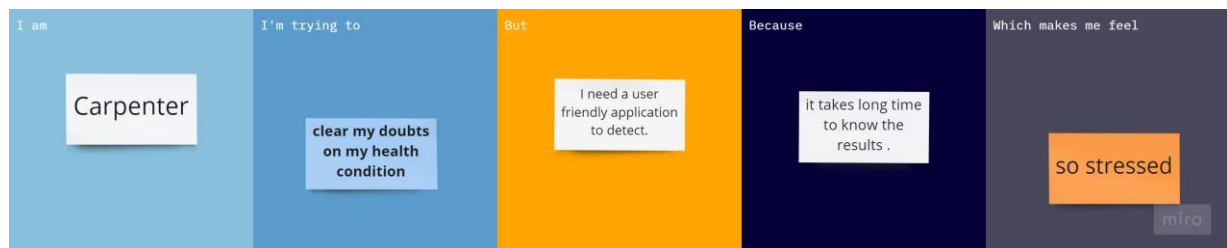
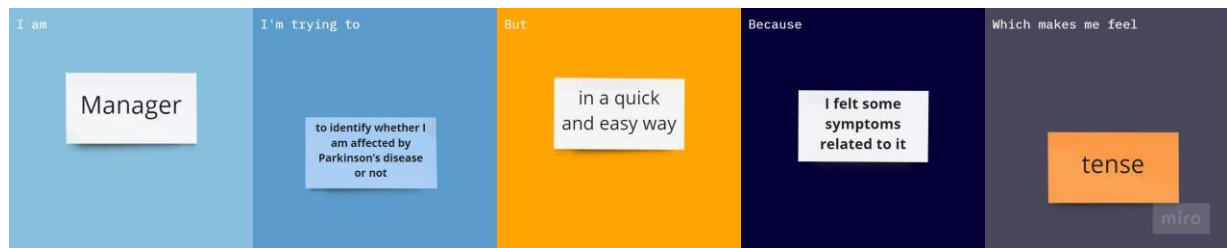


## Ideation Phase

### Define the Problem Statements

Date	19 September 2022
Team ID	PNT2022TMID53604
Project Name	Project - Detecting Parkinson's Disease using Machine Learning.
Maximum Marks	2 Marks

## Customer Problem Statement:



## **PROBLEM STATEMENTS:**

1. **Sita** is a **busy manager** who needs **to identify whether she is affected by Parkinson's disease or not** as she felt some symptoms related to it, if it is identified earlier then she can **get treatment at the earliest**.
2. **Ganapathy** is an **old man** having age of around 60 is feeling dizziness, tremor, restless sleep, amnesia, anxiety, jaw stiffness. He wants **to know whether he is affected by Parkinson's disease** before he reaches to any conclusions so that he can take appropriate medications to **improve the life span**.
3. **Bob** is a **carpenter** who **assumes to have a Parkinson's disease**, so he is trying **to clear his misunderstandings** to **reduce the stress and other factors that is affecting him**.
4. **Abhijit** is a **retired person** who is having similar symptoms to the Parkinson's disease he is looking for a way **to know whether he is affected by Parkinson's disease or not at the earliest** so that he can get treated accordingly to **ease the effects of that disease and to improve quality of life**.
5. **Kenny** is a **working woman** wants to **know whether she is affected by Parkinson's disease** so that she **can consult for early medications**.

## **INSIGHTS FROM PROBLEM STATEMENTS:**

<b>Who does the problem affect?</b>	Men are slightly more likely to get affected by Parkinson's disease compared to women.
<b>What are the boundaries of the problem?</b>	People usually develop the disease around age 60 or older.
<b>What is the impact of the issue?</b>	Parkinson's disease is caused by a loss of nerve cells in part of the brain called the substantia nigra. This leads to a reduction in a chemical called dopamine in the brain.
<b>What impact is the issue causing?</b>	Motor symptoms: slow movement, tremor, rigidity, walking and imbalance. Non-motor complications: cognitive impairment, mental health disorders, sleep disorders and pain and other sensory disturbances.
<b>When does it need to be fixed?</b>	It needs to be fixed at the earliest when the suspected symptoms like soft or low voice, tremors, lack of facial expression and so on occur.
<b>What would happen if we didn't solve the problem?</b>	Does not directly cause people to die, but the condition can place great strain on the body and can make some people more vulnerable to serious and life-threatening infections.
<b>Where is the issue occurring?</b>	The most prominent signs and symptoms occur when nerve cells in the basal ganglia that control movement become impaired or die.
<b>Why is it important that we fix the problem?</b>	By early detection of disease makes the people to take proper diagnosis on time to improve the quality of life of patients.