Project Title: Detecting Parkinson's Disease using Machine Learning

Team ID: PNT2022TMID24825 **Date:** 19 September 2022

Project Design Phase-I - Solution Fit Template

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) CS

Our Customers are people who are suspected to suffer from Parkinson's Disease. They can be of any age, race, gender, background,etc.

6. CUSTOMER CONSTRAINTS CC

Unaware of the knowledge about parkinson's disease.

5. AVAILABLE SOLUTIONS AS

Pre-existing solutions consists of blood tests, visual verbal & stimulus tests, some of which can be expensive and painful

Explore AS, differentiate

Focus on J&P, tap into BE, understand RC

2. JOBS-TO-BE-DONE / PROBLEMS J&P

The problem is that there isn't a quick way of finding whether a person is suffering from Parkinson's Disease or not

9. PROBLEM ROOT CAUSE RC

Since people suffering from Parkinson's disease are often been overlooked because of it's non lethality, further developments on this problem is on a reduced phase.

7. BEHAVIOUR BE

People suspected of suffering from the disease must get checked at a hospital which is specialized in this area

Focus on J&P, tap into BE, understand RC

Identify strong TR & EM

3. TRIGGERS

TR

Spreading the word that there is a painless way that is also inexpensive to predict Parkinson's Disease will make more people take the test

4. EMOTIONS: BEFORE / AFTER

EM

People feel confused, scared and sometimes even angry when they are suspected to have Parkinson's Disease, after taking the test they come to reality and can be more confident in their life choices

10. YOUR SOLUTION

SL

Our proposed solution is to collect hand-drawn images of shapes by people who are suspected of having the disease and to test it using for confirmation by using one of the latest updating models in the industry

8. CHANNELS of BEHAVIOUR

CH

8.1 ONLINE

Patients need to go to our website and upload their required hand-drawn image for the test

8.2 OFFLINE

The patients need to draw spirals and waves images on paper and take pictures of it to upload it to the website

Oh