

1. CUSTOMER SEGMENT(S)

CS

Who is your customer?
i.e. working parents of 0-5y.o. kids

- Person who are affected by progressive neurodegenerative disorder.
- People above the age of 60 are mostly affected.
- Mainly used by Doctors for testing the accuracy of Parkinson's Disease.

6. CUSTOMER CONSTRAINTS

CC

What constraints prevent your customers from taking action or limit their choices of solutions? i.e. spending power, budget, no cash, network connection, available devices.

- Users Need to have a proper network connectivity.
- They need to show interest towards taking test.
- They Need either a mobile or a desktop.

5. AVAILABLE SOLUTIONS

AS

Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros & cons do these solutions have? i.e. pen and paper is an alternative to digital not taking

- Prediction using sensors.
- Prediction using uploading of spiral and wave images drawn by Patients.
- Prediction using speech.

2. JOBS-TO-BE-DONE/PROBLEMS

J&P

Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore

- Customer have to upload their spiral and wave diagrams to detect their state and accuracy of the disease.
- It also help us to detect whether person is healthy or unhealthy.
- Customers have to just sign-in and upload their documents and get results.
- Early detection helps the customer to suggest meditation for recovery of patients.

9. PROBLEM ROOT CAUSE

RC

- Certain nerve cells (neurons) in the brain gradually break down or die.
- Due to a loss of neurons that produce a chemical messenger in your brain called dopamine.
- Decrease in dopamine level causes atypical brain activity, leading to impaired movement and other symptoms.

7. BEHAVIOUR

BE

- User Need to contact the doctor for further treatment if they face severe issues.
- Need to find the way to reduce the power of the disease.
- Need to talk to their family and friends about the diagnosis and ask for general help.

3. TRIGGERS

TR

What triggers customer to act? i.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news.

- Customers should be provided with awareness through advertisements.
- Social awareness about the disease should be

4. EMOTIONS: BEFORE/AFTER

EM

How do customers feel when they face a problem or a job and afterwards?

- Before: Patients may feel anxious, stressed, depressed, tremors.
- After : Patients can perform action without any ones help, walk steadily, etc.

10. YOUR SOLUTION

SL

- It is observed that the affected persons can't able draw correctly. So the user need to upload the images of drawn spiral and waves.
- Using Histogram of Oriented Gradients for Human Detection (HOG), a structural descriptor that measures variations in local gradient in the input image, the picture will be quantified.
- Random Forest classifier is used to detect Parkinson's disease in hand-drawn images of spirals and waves.

8. CHANNELS of BEHAVIOUR

CH

8.1 ONLINE

- People can able to access the website anywhere at anytime.
- It is cost-effective production to check the condition of patients in online.

8.2 OFFLINE

- Get appointment and meet doctors for report analysis.
- In-person analysis can be taken.