Project Title: Efficient Water Quality Analysis and prediction using machine learning **Team ID:** PNT2022TMID24570

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) CS

Who is Customer?

Industries and civilians

Family who are living in villages can use the water and the industries are majorly use the water for the production of the products for their business majorly use the water resources

6. CUSTOMER CONSTRAINTS CC

Which constraints prevents the customer from taking the action for the solutions ? available devices are no budget , network connection etc...

Customer and industrialist may know about the parameter present in the water such as nitrate,PH,used to predict the quality of the water

5. AVAILABLE SOLUTIONS AS

What are solutions available to overcome from the problem and get help from others ?

The available solutions are:
Stormwater management
Water conservation etc..,
Merits : It checks the water quality and hardness level

Explore AS, differentiate

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

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

What are the problems to faces while facing the customer ? There could be more than one and explore the items.

Purification of the water resource
Water quality
Sanitation of the water tank regularly

9. PROBLEM ROOT CAUSE RC

What are the real reason for the problem arise ?

What is the main story hide behind the problem ?

(i.e) Customer have to be suffer a lot due to this problem

Industrial waste
Contamination of the water bodies
Water stagging in the rainy season

7. BEHAVIOUR BE

What the customer address the problem and do get the job done?Calculate the benefits of the water model and usage of the solar panels and doing their free time as a volunteers

User involves in finding the presence of the chemicals and the various of staging material in the water and involved in analysis of the physical property of the water for usage

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

Identify strong TR & EM

3. TRIGGERS

TR

Which action triggers the customer to act ? by referring the neighbours to use such kind of solar panels and learn about the knowledge of water quality

motivate the people to drink the health water and clean water

4. EMOTIONS: BEFORE / AFTER

EM

How do customers feel when they face a problem or a job and afterwards?
i.e. lost, insecure > confident, in control - use it in your communication strategy & design.

Before : Frustration of the customer because of the time taken to analyze water quality by the manual method is too high .

10. YOUR SOLUTION

SL

If you are working on an existing business, write down your current solution first, fill in the canvas, and check how much it fits reality.
If you are working on a new business proposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behaviour.

The ain of the proposed solution is to provide th UI which provides parameter of the water as the input and predict the quality of the water as the output.

8. CHANNELS of BEHAVIOUR

CH

8.1 ONLINE

What kind of actions do customers take online? Extract online channels from #7

Analysis of water quality using ML Technique

8.2 OFFLINE

What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development.

Using some of the experimental methods analyse the water's physical and chemical property.

Identify strong TR & EM