Project Design Phase-I

Problem - Solution Fit Template

Date	19 September 2022
Team ID	IBM-EPBL/IBM-Project-10972-1659249039
Project Name	Smart Waste management in metropolitan cities using IoT.
Maximum Marks	2 Marks

1. CUSTOMER SEGMENT(S)
Who is your customer?
i.e. working parents of 0-5 y.o. kids

- To Organize and Manage Waste efficiently.

6. CUSTOMER CONSTRAINTS
What constraints prevent your customers from taking action or limit their choices of solutions?

- Lack of environmental education and culture of environmental protection.
- Lack of knowledge of smart waste management

5. AVAILABLE SOLUTIONS
Which solutions are available to the customers when they face the problem

- In past people are not aware of waste management.
- Also, they are not aware of the causes that will about to happen in the future.

2. JOBS-TO-BE-DONE / PROBLEMS
Which jobs-to-be-done (or problems) do you address for your customers?

To Bulid an management System using IoT, to manage wastes in meteropolitan cities.
- Disposal methods
- Recycling methods
- Avoidance and reduction methods
- Transportation of waste

9. PROBLEM ROOT CAUSE
What is the real reason that this problem exists? What is the back

- Inadequate knowledge about the waste disposal.
- Improper segregation of waste based on their decomposing nature(Bio-degradable or Non Bio-degradable).

7. BEHAVIOUR
What does your customer do to address the problem?

- Must have a basic knowledge about waste management.
- Should be able to recognize different kinds of waste.
- Should Encourage their neighbour to achieve waste management globally.

3. TRIGGERS
What triggers customers to act?

People's from all around the world, will be used to manage waste, and thus they have a clean environment..

4. EMOTIONS: BEFORE / AFTER
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:
- People are not aware by the cause of impact which is about to be produced due to improper disposal of waste.

AFTER:
- A Basic Knowledge about disposing waste and a proper methodologies for disposing waste which is available to their nearest.

10. YOUR SOLUTION
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 main aim of this project is to develop a smart waste management system using IoT(Internet of Things).
- This project should take parameters related to segregation of wastes and other practices used in waste management.
- With the help of this project, it is estimated that there will be a significant amount of waste disposal than the others.
- Brings more efficiency and understandability.

8. CHANNELS of BEHAVIOUR

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

- To synchronize the system along with the waste deposited areas.

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

- Try to segregate as much as possible waste by physical man-work, which minimizes the work
- Create an Awareness camp about the waste management.
- Organize youngsters among the region and taught them the benefits from this system to their region.