

PROJECT DESIGN PHASE

PROBLEM SOLUTION FIT TEMPLATE

DATE	21 OCTOBER 2022
TEAM ID	PNT2022TMID27380
PROJECT NAME	Real-Time River Water Quality Monitoring and Control System

PROBLEM SOLUTION FIT:

Define CS, fit into CC	1. CUSTOMER SEGMENT(S) CS Who is your customer? People living in rural areas near the river, who use river water.	6. CUSTOMER CONSTRAINTS CC What constraints prevent your customers from taking action or limit their choices of solutions? A water quality monitoring system is used to identify water pollution in a specific area. People may find it hard to recover if any fault occurs, this system prevents people from water pollution.	5. AVAILABLE SOLUTIONS AS Which solutions are available to the customers when they face the problem or need to get the job done? Individual notification to each people could be sent but it is not possible in this system, it will still notify the corporation and they can further notify the people to be aware.	Explore AS, differentiate
	2. JOBS-TO-BE-DONE / PROBLEMS J&P Which jobs-to-be-done (or problems) do you address for your customers? The river water quality monitoring system checks periodically, the dust particles, temperature, and PH level and gives notification to the public when the water quality varies.	9. PROBLEM ROOT CAUSE RC What is the real reason that this problem exists? What is the back story behind the need to do this job? We know that the sensor is expensive and the system needs more than one sensor to work, these sensors are used periodically to check the quality of water, and if any problem needs to be replaced frequently.	7. BEHAVIOUR BE What does your customer do to address the problem and get the job done? The customer could use the user guide provided to overcome the problem or else they can report and contact the corporation. They will take care of the problem.	
Identify strong TR & EM	3. TRIGGERS TR What triggers customers to act? For example: If certain area people start using this quality monitoring system and so they are staying healthy without any water borne diseases, it will trigger the other area people start using it.	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.	8. CHANNELS of BEHAVIOUR CH (i) ONLINE What kind of actions do customers take online? If it is in online mode, they can use the helpline number to contact the authorities.	Extract online & offline CH of BE
	4. EMOTIONS: BEFORE / AFTER EM How do customers feel when they face a problem or a job and afterwards? The customers might feel hard first, we will guide them with a user guide and they will find it easy to use.	Alerting the authorities if the water quality is not good so that they can go and announce the localities not to drink that water.	(ii) OFFLINE What kind of actions do customers take offline? If it is in offline mode, the customers can directly reach the corporation office and report the problem.	