Real Time Water Quality Management and Control System Project Design Phase-I - Solution Fit Template Team ID: PNT2022TMID41957

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| Define CS, fit into CC | 1. CUSTOMER SEGMENT(S) CS  Environmental enthusiasts, normal  people, Governments and industrialist are our customer because all the have the need in knowing water quality and also they need a pure water. We are targeting the people who are have the basic knowledge and who need to know the quality of water. As well as who are having water-based industries. | 6. CUSTOMER CONSTRAINTS CC  Water quality monitoring system  is used for identify the water pollution on specific area. People may find it hard to recover if any fault occurs, this system prevent people from water pollution. | 5. AVAILABLE SOLUTIONS   * The temperature of water & PH level of water can be monitored. * The chemical composition of the water to know the amount of dangerous substances. * Amount of oxygen dissolved in water. * Any kind of chemical substances should be presence in water. | Explore AS, differentiate |
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| Focus on J&P, tap into BE, understand RC | 2. JOBS-TO-BE-DONE / PROBLEM J&P | 9. PROBLEM ROOT CAUSE RC | 7. BEHAVIOUR BE | Focus on J&P, tap into BE, |
| The Industrialist are suffers to  know the quality of water and also monitor the PH, Humidity, presence of chemical substances, amount of dissolved oxygen. If they fail do so they will need to face the consequence of the environment. They are only need the quality of water because impure water should because the various diseases. | We know that the sensor are  expensive and the system needs more than one sensors to work, these sensors are used periodically to check the quality of water and if any problem, need to be replace frequently. | Directly related: Find better  network availability, calculate the quality and quantity of water and also monitor simultaneously the quality and quantity of water.    Indirectly related: We should make the awareness to all other  industries as well as people |

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| Identify strong TR & EM | |  | | | | |  | | 10. YOUR SOLUTION SL   * We provide a good source to the public and we work based on public review. * The PH level of water is identified. * Turbidity of water is identified. * Conductivity of water is identified and also monitor the presence of chemical substances in water | | |  | | 8. CHANNELS OF BEHAVIOUR  ONLINE:   * People and industrialist may provide review and rating for the system. * The software used should be properly studied by everyone to operate it. * The software and hardware connections should be given properly. | CH | | Find strong TR & EM | |
| 3. TRIGGERS | | | | TR |
|  By installing this project, we | | | | |  | |
| can trigger people by seeing their neighbor make the utilization of technology more useful and reading about a more efficient solution in the news.   In case of without using mobile app, one should always be there to maintain the parameters and the maintenance cost should be paid. | | | | |  | |
|  | | | | | | |  | |        | Temperature of water is always monitored.  Amount of oxygen  dissolved in the water.  TDS are used to describe the salinity level of water.  Monthly report of maintaining the water will be displayed. | | OFFLINE:   * Public and industrialist supply funds to develop the system and make the system to take a next move. * The hardware setup should be installed properly. * All the kind of hardware should be water resistant. | | |  | |
|  | |  But, in case of using mobile app the maintenance cost can be avoided and we can be  able to monitor the parameters. | | | | |  | |
| 4.EMOTIONS: BEFORE / AFTER  E | | | | |  | |
|  | M | BEFORE: | | |  | |
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| * Before implementing this project people feel it difficult to enjoy boating fishing and provision of s drinking. * They also face major problems in the development of industrial, hydroelectric and agricultural water requirements.     AFTER:   * After implementing this project people can be able to face all these above-mentioned problem easily | | | | | afe  s | |