RealTimeWaterQualityManagementandControlSystem ProjectDesignPhase-I-SolutionFitTemplate TeamID: PNT2022TMID04228

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| **DefineCS,fitintoCC** | **1.CUSTOMERSEGMENT(S) CS**  Normal people and industrialist are our customer because all the have the basic knowledge in water quality and also they need a pure water. Weare 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.CUSTOMERCONSTRAINTS CC**  Network availability and availabledevice are the biggest issue face by thecustomers and they need to spend a time to getdaily update, it may high budget for somepeople. The resources in terms of financialaswellas manpowerareinadequate. | | | | 1. **AVAILABLESOLUTIONS**    * The temperature of water can bemonitored.    * The PH level of water is monitored and identified.    * Amount of oxygen dissolved inwater.    * Any kind of chemical substances should be presence in water. | | | **ExploreAS,differentiate** |
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| **FocusonJ&P,tapintoBE,understandRC** | **2.JOBS-TO-BE-DONE/PROBLEM J&P** | | | **9.PROBLEMROOTCAUSE RC** | | | | **7.BEHAVIOUR BE** | | | **FocusonJ&P,tapintoBE,** |
| All the people and industrialist are suffers to know the quality of water and also monitor the PH, Humidity, presence of chemical substances, amount of dissolved oxygen. They are only need the quality of water because impure water should because the various diseases. | | | The reason for available of this project to monitor the quality of water as well as the various substances are presence in water. We took this project to break the myth of utilizing the technology and also reduce the manpower | | | | **Directly related:** Find betternetwork availability, calculate the qualityandquantityof 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 | | |
| **Identify strong TR &EM** | 1. **TRIGGERS TR**    * By installing this project, wecantrigger people by seeing theirneighbor make the utilization oftechnology more useful andreading about a more efficientsolutioninthe news.    * In case of without using mobileapp, one should always be thereto maintain the parameters andthe maintenance cost should bepaid. | | | 1. **YOURSOLUTION**    * We provide a good source tothepublic and we work basedon publicreview.    * The PH level of water isidentified.    * Turbidity of water isidentified.    * Conductivity of water isidentified and also monitor the presence of chemical substances in water | | **SL** | | 1. **CHANNELSOFBEHAVIOUR**   ONLINE:   * + People and industrialist may provide reviewandratingforthesystem.   + The software used shouldbe properly studied byeveryoneto operateit.   + The software andhardware connectionsshouldbegivenproperly. | **CH** | | **Findstrong TR& EM** |
|  | | | | | * Temperature of water isalwaysmonitored. * Amountofoxygendissolvedinthe water. * TDS are used to describe thesalinitylevelofwater. * Monthly report ofmaintaining the water will bedisplayed. | | OFFLINE:   * Public and industrialist supply funds to develop thesystem and make the system totakeanextmove. * Thehardwaresetupshouldbeinstalledproperly. * All the kind of hardware should be water resistant. | | |  | |
|  | | * But, in case of using mobile appthemaintenance costcan beavoided and we can be able tomonitorthe parameters. |  | |
| **4.EMOTIONS:BEFORE/ AFTER EM**  BEFORE:   * Before implementing this projectpeople feel it difficult to enjoy boatingfishingandprovisionofsafedrinking. * They also face major problems in thedevelopment of industrial,hydroelectric and agricultural waterrequirements.   AFTER:   * + After implementing this projectpeople can be able to face all theseabove-mentionedproblemseasily |