Project Name: RIVER
WATER QUALITY
MONITORING AND
CONTROL SYSTEM

Team ID: PNT2022TMID42440

Date: 19 October

SCENARIO Browsing, booking, attending, and rating a local city tour	PHASE	STEPS TO IMPLEMENT	OBJECTIVE OF THE		CHALLENGES DURING IMPLEMENTATION	OPPORTUNITIES
			PROJECT		IMPLEMENTATION	
PHASE Steps to implement the project. Easy Representation to the user.	Testing the quality of the water	Measuring the PH, temperature and required parameters	control	toring and ling the water quality	Seperation of dirty and pure water and recyle them	Altering the authorities, if the water quality is not good
STEPS How to implement Methods for implementation Description of the components	Depending on the quality of water, it may either be a source of till earl good health or a source of diseases and deaths Seperate the water into soluable and disoluable The pH parameters are difficult to measure accurately as it deals with the very small amount of microcentration thus need a sensitive sensing dence for its detection.	Its constitute varies from 0 to 14 pH Mathematically pH is referred as, pH = log [H+]. Irrigate is visibly at levels above 80 NTU Mathematically pH is the farity of element or muddiness uter in the water Turbidity train sensor is victimised to measure the clarity of element or muddiness uter in the water PH values also process the solubility of elements and compounds making them cyanogenetic	The system should of sensors to col about turbidity, te deficiency to col about turbidity, te deficiency to col about turbidity, te deficiency to five water col ph. conductivity of niver water col color about turbidity conductivity, and turbidity, conductivity, etc. using available sensors at a remote place.	evaluate quality ty, etc. parameters for quality control The data visualization application runs on client the quality devices such as 5 mart	A rain garden is a constructed area which collects rainwater from roofs, pipes and driveways etc Bleach comes in different concentrations. Check the label of the bleach you are using to find its concentration before you start to district water Drinking water is also wasted by many of us at homes, even if unintentionally. Adding a pinch of salt for each quart or liter of boiled water Bleach comes in different concentration before you start to district water Water used to wash vegetables often just goes down the drain	If the acquired value is above the threshold value comments will be displayed as 'BAD'. If the acquired value is lower than the threshold value comments will be displayed as 'GODD' To send SMS to an authorized person routinely If the acquired value is lower than the threshold value comments will be displayed as 'GODD' when water quality detected does not match the preset standards, so that, necessary actions can be taken
OBJECTIVES The main purpose of the project	If the river water qualities in correct level groundwater level increase. Animals and birds River water essential for hur being.		Improvement and restoration of soil way that water checked, the quality and thus, raising productivity rates Ease and convenience of drinking water populations.	quality is natural hazards tere is (especially in the context (especially in the context of climate change) securing sufficient provision and securing of access to	enhance product quality and reduce or remove contamination that could be present to the extent necessary to meet the water quality targets To ensure safe drinking-water through good water supply practice	Improve customer service, Make sure employees are trained in quality. primary goal of quality improvement is to improve outcomes For an indicator to be effective it must provide a true measure of a component of the ecosystem
CHALLENGES what are challenges available during the implementation phase.	If the river water quality is not good polluted then animals and birds cannot able will be decrease. If the river water is polluted water is polluted then animals and birds cannot able to drink water. Polluted water is pollute		including low-quality raw raw data data. This brings additional quality challenges when it comes to directly, understanding and reg	regions in the world, a sets related to water cannot be obtained mainly due to various ulations and data rotection laws Intelligence-enabled IoT offers a way to address problems such as these	Every laboratory has a limit of the number of samples it can analyze in positive moment [Description of a samples it can analyze in positive moment] positive moment]	Despite, good features and reliability coar of elaboratories and struments for feeting laboratories face given by the Word team organization (WHO), water quality may become a hindrance for Boards Many water testing given by the Word team of given by t
PAIN POINTS What are the problem that user has to face.	Chemical waste products from industrial process or discharge into river to acid rain pollution maker due cause the river to dry fast	Because of throwing water pollution may I his causes harm to	this water is harmful for variou drinking this causes harm and set to organisms living in the	Semble data from Joseph Land Consists of five key elements e.g., soil, water, climate, natural vegetation, and landforms. Among these water is the utmost crucial element for human life.	This causes come to organisms living in the river water organism Also increasing river water temperature affect the living organism In this research, we monitor the physical and chemical parameters of water bodies.	To simulate and evaluate quality when the parameters for quality control. To send SMS to an authorized person routinely when the parameters for quality control. To send SMS to an authorized person routinely when the parameters for quality control. Real-time monitoring of water quality properties to specify the people to people to people to become conscious against using control person conscious against using opposition of the people to become conscious against using populating the water to stop polluting the water to
OPPORTUNITIES what are the future scope for this project	Used in the agricultural for cultivation and other purposes We use the detector to easily identify our device is miniature compared to other devices	We include sensor Here we used We need high for detection of PH temperature sensor to detect the temperature components for of the water of the water quality testing.	(BRB) system and is also compared with	quality monitoring s gained more terest among earchers in this sty-first century The main aim is to develop a system for continuous monitoring of river water quality at remote places using wireless sensor networks with low power consumption	Chlorine dioxide tablets can kill germs, including Cryptosporidium, if you Idight) can be used to Idight to be used to Kill some germs. The sun's rays can improve the quality of water. This method may reduce some germs in the water	It is used in agriculural field for testing the river industrial purpose water quality It help people to become conscious against using contaminated water as well as to stop polluting the water