## Efficient water quality analysis and prediction using machine learning

## **Team ID:** PNT2022TMID54402

Browsing, booking, attending, and rating a local city tour	Entice How does someone initially become aware of this process?	Enter What do people experience as they begin the process?	Engage In the core moments in the process, what happens?	Exit  What do people typically experience as the process finishes?	Extend What happens after the experience is over?
Steps What does the person (or group) typically experience?	Customers can use the system's features whenever and wherever they want.  Reduces reliance on water testing organisations.  Rapid forecasting of the Water Quality outcomes.	To conveniently view the interpreted findings, there is text on the Interface.  Simple User there is text on the screan as well as buttons and options.	The Water Quality Index is calculated.  Customers are at eaveral water sample ease.  Customers can use several water sample types.	Customer gets easy interpretation that is easy to understand.	Customer feel system since it is always available to them and because it has an easy-to-use interface.
Interactions What interactions do they have at each step along the way?  People: Who do they see or talk to? Places: Where are they? Things: What digital touchpoints or physical objects would they use?	On the web page, users can interact with the dashboard.	Customers can interact with the Dashboard's many options to access the functionality they need.	The customer can also provide their own set of parametric variables to forecast the outcomes of the water quality.  They have access to historical data and previously projected outcome analyses.	In order to interpret the results in a way that they can understand, the customer interacts with a variety of possibilities.	Customers can leave the prediction system and return to it later if necessary.
Goals & motivations  At each step, what is a person's primary goal or motivation?  ("Help me" or "Help me avoid")	Aids with my ability to forecast any type of water sample  Aids in predicting the methods of purification based on the contaminants present.  Aids in predicting the methods of purification to based on the contaminants present.  Enables me to avoid unnecessary information.	I need help getting to the prediction system quickly and without having to wait.	Promptly responds to consumer accurately predicting the important minerals and contaminants present.	By sending a farewell note, it also finishes and clearly describing the conversation appropriately.  Helps me by succinctly and clearly describing the Classification and Purification procedure.	The system must achieve the objectives and improve future user experiences.  Access to expected findings should be made simple; and internal working complications should be avoided.
Positive moments  What steps does a typical person find enjoyable, productive, fun, motivating, delightful, or exciting?	Customers will accept the system because it is free of charge.  Customers are eager to accept the new everyone can utilise it way of predicting the without relying on any organisations.	Customers are relieved that they can use this technology whenever and wherever they choose.	System user It needs to look customers like interfaces should be good to make users simple to use and comprehend.  Customers like receiving a prompt response without any delays.	The anticipated outcomes are saved for their future use as they exit.	Make the system's behavior more enjoyable with some animations or some graphic effects to that the users will return anytime they like.  Try to increase user trust by giving them useful information.
Negative moments What steps does a typical person find frustrating, confusing, angering, costly, or time-consuming?	In some circumstances, if it operates slowly, customers will become frustrated.  If customers are asked to pay to use the system, they will be disappointed.	This technique is ineffective for blind people since they must rely on others to validate the results of the interpretation.	If it is not functioning properly, the find a solution if it offers customer will incorrect purifying procedures based on results interpretation.	Customers become unhappy if they don't receive an accurate prognosis.	Sometimes it utilise this system provides ambiguous information, confusing customers.
Areas of opportunity  How might we make each step better? What ideas do we have?  What have others suggested?	All customers have easy access.  It need to be accessible all the time.	Based on impurities, suggest the appropriate purifying techniques.  User interface customization.	improved result interpretation and pertinent information.  impeccable manner.	sustainable changes are possible.  To function across a variety of platforms.	Integration with Future Technologies capability.