

## Project Design Phase-II Customer Journey

Date	10 October 2022
Team ID	PNT2022TMID00549
Project Name	Efficient Water Quality Analysis and Prediction using Machine Learning
Team Leader	Shivani I
Team Members	Vaishnavi V, Shirley Praylin G, Sindhuja S
Maximum Marks	2 Marks

### User journey

Achieving 3 out of 4 essential tasks done

People  
2-5

Time  
30 min

Difficulty  
Beginner

Creating user journeys is a quick way to help you and your team gain deeper understanding of why you're designing for this. It is also a chance to share your project. The information you add here should be representative of the observations and research you've done about your users. [Learn more](#)

Phases	Requirements needs	Sample collection	Data analysis	Information Utilization
<b>Steps</b> <small>Describe what your user has to go through</small>	Selection of Parameter Selection of methods Precision and Accuracy	Clean the sample containers and choose the filter pore size. Minimize microbial activity. Select sample prevention method.	Measurement of six parameters and analyse the data collected. The unnecessary data will be rejected. Being condition of the water. It will be detected by using the advanced artificial intelligence algorithms.	Finally the data collected is test and predict the good condition of the water. It will be detected by using the advanced artificial intelligence algorithms.
<b>Feelings</b> <small>What your user might be thinking and feeling at this moment</small>	<div style="display: flex; align-items: center;"> <div>                         Less unused features                          Less development rework                          Some defects may occur                     </div> </div>	<div style="text-align: center;"> </div> <p>High specificity for target compounds. Detection limits below regulatory trigger criteria. The reasonable throughput for sample collection is more quantity is difficult.</p>	<div style="text-align: center;"> </div> <p>Difficult to manage over time and with large data set. Require operation to submit data, sometimes its configuration is required.</p>	<div style="text-align: center;"> </div> <p>Usually feasible under exchange grants to a final result but it is challenging to accomplish the specific result to produce.</p>
<b>Pain points</b> <small>Be able to describe it in detail</small>	<div style="display: flex; gap: 5px;"> <div style="background-color: #FFB6C1; padding: 5px; font-size: 0.8em;">Undocumented process</div> <div style="background-color: #FFB6C1; padding: 5px; font-size: 0.8em;">Conflict Requirement</div> <div style="background-color: #FFB6C1; padding: 5px; font-size: 0.8em;">Need of more resources</div> </div>	Lack of technology and human resources occur sometimes. Storage and transportation issue happens. Technical hurdles is one of the pain point.	Collecting of water quality data can be expensive. Maintaining and repairing equipment costs can be rack up quickly overtime. Sometime incorrect may be a problem.	It still has a high require component. Good quality needed for all. To measure the required parameter of water.
<b>Opportunities</b> <small>Be able to describe it in detail</small>	<div style="display: flex; gap: 5px;"> <div style="background-color: #ADD8E6; padding: 5px; font-size: 0.8em;">Lower cost of development</div> <div style="background-color: #ADD8E6; padding: 5px; font-size: 0.8em;">Higher level of needs</div> <div style="background-color: #ADD8E6; padding: 5px; font-size: 0.8em;">More beneficial Measures</div> </div>	Sampling reduces time and cost of research studies. The quality of water is always better with sample collection. It provides much quicker result.	Appropriate data submission gives an excellent output. Then it is easy to verify the parameters and can predict the water quality.	The utilization of data in decision making allows us to make decisions based on evidence, and also speed up the things by making it easier to share the perception. It also has the advantage of making it easier to verify the result in future.

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