

## Project Design Phase-II Customer Journey

Date	10 October 2022
Team ID	PNT2022TMID06599
Project Name	Efficient Water Quality Analysis and Prediction using Machine Learning
Team Leader	Thamotharan.C
Team Members	Mohanakannan.G, Kathirvel.P, Kokila.V
Maximum Marks	2 Marks

### User journey

by the design team at educational institutions

No apple  
1-4

Time  
10 min

Difficulty  
Beginner

Creating user journeys is a quick way to help you and your team gain a deeper understanding of why you're designing for a particular user in your project. The information you have should be representative of the observations and research you've done about your users. *P*

Phases	Requirements needs	Sample collection	Data analysis	Information Utilization
<b>Steps</b> <small>Describe what your user has to go through</small>	<div style="display: flex; justify-content: space-around;"> <div style="background-color: #FFD700; padding: 5px; font-size: 0.8em;">Selection of Parameter</div> <div style="background-color: #FFD700; padding: 5px; font-size: 0.8em;">Selection of methods</div> <div style="background-color: #FFD700; padding: 5px; font-size: 0.8em;">Precision and Accuracy</div> </div>	Clean the sample containers and choose the filter pore size. Minimize microbial activity. Select sample preservation method.	Measurement of six parameters and analyse the data collected. The unnecessary data will be rejected. Being analysis the data and interpret result.	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 did your user might be thinking and feeling at this moment?</small>	<div style="display: flex; align-items: center;"> <div style="margin-left: 10px;"> <div style="background-color: #FFD700; padding: 5px; font-size: 0.8em;">Less unused features</div> <div style="background-color: #FFD700; padding: 5px; font-size: 0.8em;">Less development rework</div> <div style="background-color: #FFD700; padding: 5px; font-size: 0.8em;">Some defects may occur</div> </div> </div>	<div style="text-align: center;"> <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>	<div style="text-align: center;"> <p>Difficult to manage over time and with large data set. Require operation to submit data, sometimes its configuration is required.</p> </div>	<div style="text-align: center;"> <p>Usually feasible under exchange grants to a final result but it is challenging to accomplish the specific result to produce.</p> </div>
<b>Pain points</b> <small>Be identify situation or user info</small>	<div style="display: flex; justify-content: space-around;"> <div style="background-color: #FF69B4; padding: 5px; font-size: 0.8em;">Undocumented process</div> <div style="background-color: #FF69B4; padding: 5px; font-size: 0.8em;">Conflict Requirement</div> <div style="background-color: #FF69B4; 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 an problem.	It still has a high require component. Good quality needed for all. To measure the required parameter of water.
<b>Opportunities</b> <small>Justification given to support architectural shifts to the design solution</small>	<div style="display: flex; justify-content: space-around;"> <div style="background-color: #00CED1; padding: 5px; font-size: 0.8em;">Lower cost of development</div> <div style="background-color: #00CED1; padding: 5px; font-size: 0.8em;">Higher level of needs.</div> <div style="background-color: #00CED1; 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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