

## Project Design Phase-II Customer Journey

Date	10 October 2022
Team ID	PNT2022TMID16124
Project Name	Efficient Water Quality Analysis and Prediction using Machine Learning
Team Leader	Ajay G
Team Members	Jana R M, Gopi R, Kevin N
Maximum Marks	2 Marks

### User journey

An interactive tool to help you design your user journey.

People  
2-5

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 this. It's a tool to help you design. The information you add here should be representative of the observations and research you've done about your users. It's not a final design.

Phases	Requirements needs	Sample collection	Data analysis	Information Utilization
<b>Steps</b> <small>Describe the steps you need to perform</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 analyse 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 your user might be thinking and feeling in this moment</small>	<div style="text-align: center;">   <div style="display: flex; justify-content: space-around; font-size: 0.7em;"> <div style="background-color: #FFD700; padding: 2px;">Less unused features</div> <div style="background-color: #FFD700; padding: 2px;">Less development rework</div> <div style="background-color: #FFD700; padding: 2px;">Some defects may occur</div> </div> </div>	 High specificity for target compounds. Detection limits below regulatory trigger criteria. The reasonable throughput for sample collection is more quantity is difficult.	 Difficult to manage over time and with large data set. Require operation to submit data, sometimes its configuration is required.	 Usually feasible under exchange grants to a final result but it is challenging to accomplish the specific result to produce.
<b>Pain points</b> <small>What is likely to cause a user to be dissatisfied</small>	<div style="display: flex; justify-content: space-around; font-size: 0.7em;"> <div style="background-color: #FF69B4; padding: 5px;">Undocumented process</div> <div style="background-color: #FF69B4; padding: 5px;">Conflict Requirement</div> <div style="background-color: #FF69B4; padding: 5px;">Need of more resources</div> </div>	Lack of technology and human resources occur sometimes. Storage and transportation is sue 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>What are the opportunities you can see for the design team</small>	<div style="display: flex; justify-content: space-around; font-size: 0.7em;"> <div style="background-color: #87CEFA; padding: 5px;">Lower cost of development</div> <div style="background-color: #87CEFA; padding: 5px;">Higher level of results</div> <div style="background-color: #87CEFA; padding: 5px;">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 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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