

Project Design Phase- II Customer Journey

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Team ID	PNT2022TMID53671
Project Name	Efficient Water Quality Analysis and Prediction using Machine Learning
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User journey

by the design team at customer interaction

People
2-5

Time
10 min

Difficulty
Beginner

Creating a user journey is a quick way to help you and your team gain a deeper understanding of why you're designing for a business and in your project. The information you add for it should be representative of the observations you've done about your users. [Learn more](#)

Phases	Requirements needs	Sample collection	Data analysis	Information Utilization
Steps <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; border: 1px solid black;">Selection of Parameter</div> <div style="background-color: #FFD700; padding: 5px; border: 1px solid black;">Selection of methods</div> <div style="background-color: #FFD700; padding: 5px; border: 1px solid black;">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.
Feelings <small>How does your user feel about the product? (happy, sad, etc.)</small>	<div style="display: flex; align-items: center;"> <div style="margin-left: 10px;"> <div style="background-color: #FFD700; padding: 2px; border: 1px solid black; font-size: 0.7em;">Less unused features</div> <div style="background-color: #FFD700; padding: 2px; border: 1px solid black; font-size: 0.7em;">Less development rework</div> <div style="background-color: #FFD700; padding: 2px; border: 1px solid black; font-size: 0.7em;">Some defects may occur</div> </div> </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>	<p>Difficult to manage over time and with large data set. Require operation to submit data, sometimes its configuration is required.</p>	<p>Usually feasible under exchange grants to a final result but it is challenging to accomplish the specific result to produce.</p>
Pain points <small>Is anything your user wants to avoid?</small>	<div style="display: flex; justify-content: space-around;"> <div style="background-color: #FFD700; padding: 5px; border: 1px solid black; font-size: 0.7em;">Undocumented process</div> <div style="background-color: #FFD700; padding: 5px; border: 1px solid black; font-size: 0.7em;">Conflict Requirement</div> <div style="background-color: #FFD700; padding: 5px; border: 1px solid black; font-size: 0.7em;">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. Some time incorrect may be a problem.	It still has a high require component. Good quality needed for all. To measure the required parameter of water.
Opportunities <small>What are factors your user may want to improve or add to the product?</small>	<div style="display: flex; justify-content: space-around;"> <div style="background-color: #FFD700; padding: 5px; border: 1px solid black; font-size: 0.7em;">Lower cost of development</div> <div style="background-color: #FFD700; padding: 5px; border: 1px solid black; font-size: 0.7em;">Higher level of needs.</div> <div style="background-color: #FFD700; padding: 5px; border: 1px solid black; font-size: 0.7em;">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 it's so spread up the thing 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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