

Project Design Phase-II Customer Journey

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| Date | 10 October 2022 |
| Team ID | PNT2022TMID27512 |
| Project Name | Efficient Water Quality Analysis and Prediction using Machine Learning |
| Team Lead | Jaffrin Deno M |
| Team Members | Sharan Gonsalous Johni Manoj A Juan Simon Boris V |
| Maximum Marks | 2 Marks |

User journey

by the PNT2022 TM team at the University of Birmingham

People
2-3

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 audience in your project. The information you add here should be representative of the observations and research you've done about your users.

| Phases | Requirements needs | Sample collection | Data analysis | Information Utilization |
|---|---|--|--|---|
| Steps <small>Describe the steps your user needs to perform.</small> | <div style="display: flex; justify-content: space-around;"> <div style="background-color: #FFD700; padding: 5px; text-align: center;">Selection of Parameter</div> <div style="background-color: #FFD700; padding: 5px; text-align: center;">Selection of methods</div> <div style="background-color: #FFD700; padding: 5px; text-align: center;">Precision and Accuracy</div> </div> | 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 a 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. |
| Feelings <small>What your user might be thinking and feeling at the moment.</small> | <div style="display: flex; align-items: center;"> <div style="display: flex; flex-direction: column; align-items: center;"> <div style="background-color: #FFD700; padding: 5px; text-align: center;">Less unused features</div> <div style="background-color: #FFD700; padding: 5px; text-align: center;">Less development rework</div> <div style="background-color: #FFD700; padding: 5px; text-align: center;">Some defects may occur</div> </div> </div> | | | |
| Pain points <small>Problems your user is likely to face.</small> | <div style="display: flex; justify-content: space-around;"> <div style="background-color: #FF69B4; padding: 5px; text-align: center;">Undocumented process</div> <div style="background-color: #FF69B4; padding: 5px; text-align: center;">Conflict Requirement</div> <div style="background-color: #FF69B4; padding: 5px; text-align: center;">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. |
| Opportunities <small>What you can do to make your user's experience better.</small> | <div style="display: flex; justify-content: space-around;"> <div style="background-color: #00CED1; padding: 5px; text-align: center;">Lower cost of development</div> <div style="background-color: #00CED1; padding: 5px; text-align: center;">Higher level of needs</div> <div style="background-color: #00CED1; padding: 5px; text-align: center;">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 spread 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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