

Efficient water quality analysis and prediction using machine learning

Use this framework to better understand customer needs, motivations, and obstacles by illustrating a key scenario or process from start to finish. When possible, use this map to document and summarize interviews and observations with real people rather than relying on your hunches or assumptions.

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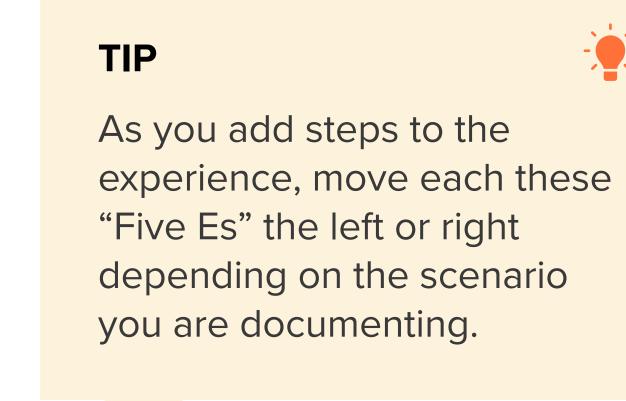
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Document an existing experience

Narrow your focus to a specific scenario or process within an existing product or service. In the **Steps** row, document the step-by-step process someone typically experiences, then add detail to each of the other rows.



| Efficient water quality analysis and prediction using machine learning | Entice How does someone initially become aware of this process? | Enter What do people experience as they begin the process? | Engage In the core moments in the process, what happens? | Exit What do people typically experience as the process finishes? | Extend What happens after the experience is over? |
|---|---|---|---|--|--|
| Steps What does the person (or group) typically experience? | water quality testing Visit website Browse available predictors A customer navigates to find best suitable predictor water The customer looks for best predictor among them | New User credentials The user should enter their credentials The user details are verified and their details are stored | Required Values are entered The model predicts the water quality according to their values | The quality of water is produced The user can know about the quality of water The user can know about the quality of water The user can provide review for our servises | A new data can also be given to predict |
| Interactions What interactions do they have at each step along the way? People: Who do they see or talk to? Places: Where are they? Things: What digital touchpoints or physical objects would they use? | The predictor asks them to login | They register themselves as individual/ corporate/ government organizations | The UI can prompt the user the values required to predict | The review is prompted | The user can give review and save the data for future purposes |
| Goals & motivations At each step, what is a person's primary goal or motivation? ("Help me" or "Help me avoid") | Help me predict the water quality | To know about the water quality | help me to enter the correct values with proper conversion | | |
| Positive moments What steps does a typical person find enjoyable, productive, fun, motivating, delightful, or exciting? | Their data can be saved for future purposes | | when proper conversion is provided it makes the user work easier | The prediction results are provided | |
| Negative moments What steps does a typical person find frustrating, confusing, angering, costly, or time-consuming? | Information overload can happen due to browsing | | The user might face the issue of conversion | | |
| Areas of opportunity How might we make each step better? What ideas do we have? What have others suggested? | To improve UI | | The conversion table could be provided | | |

