Project Planning Phase

Milestone and Activity List

|  |  |
| --- | --- |
| Date | 21 October 2022 |
| Team ID | PNT2022TMID26485 |
| Project Name | Real Time River Water Quality Monitoring and Control System |

|  |  |  |
| --- | --- | --- |
| TITLE | DESCRIPTION | DATE |
| Literature Survey& | A literature review is a | 3 September 2022 |
| Information Gathering | comprehensive summary of |  |
|  | previous researches on the |  |
|  | topic. The literature review |  |
|  | surveys scholarly articles, |  |
|  | books, and other sources |  |
|  | relevant to a |  |
|  | particular area of |  |
|  | research. |  |
| Prepare Empathy Map | An empathy map is a collaborative tool teams can use to gain a deeper insight into their customers. It helps us to understand the customer’s pain, gain and diﬃcultiesfrom their point of view. | 10 September 2022 |
| Ideation  Brainstorming | Brainstorming is a group problem-solving | 17 September 2022 |
|  | method that helped us to  gather and organize various ideas and thoughts from teammembers. |  |

|  |  |  |
| --- | --- | --- |
| Deﬁne Problem  statement | The Customer Problem Statement helps us to focus on what matters to create experiences peoplewill love. | 19 September 2022 |
|  | A well-articulated customer problem statement allowed us to ﬁnd the ideal solution for the challenges customersface. |  |

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Problem Solution Fit | It helped us understand and analyze all the thoughts of our customer, their choice of options,  problems, root cause, behavior and emotions. | 26 September 2022 |
| Proposed solution | It helped us analyze and examine our solution more in the grounds of uniqueness, social impact,  business model, scalability etc. | 28 September 2022 |
| Solution Architecture | Solution architecture is a complex process – with many  sub-processes – that bridges the gap  between business  problems and technology solutions. It helped us understand the features  and components used to complete the project. | 1 October 2022 |

|  |  |  |
| --- | --- | --- |
| Customer journey map | It helped to analyse the various steps, interactions, goals and motivation,  positives, negatives and opportunities. | 7 October 2022 |
| Solution requirements | It briefs about  functional and non-functional requirements. It involves the various steps in the entire process. It also  speciﬁes features usability, security, reliability, performance, availability and scalability. | 12 October 2022 |
| Technology stack | A tech stack is the combination of technologies a company uses to build and run an application or project. It helps us analyse and understand various technologies that needs to  be implemented in the project. | 15 October 2022 |
| Data ﬂow | A Data Flow Diagram (DFD) is a traditional visual representation of | 11 October 2022 |

|  |  |  |
| --- | --- | --- |
|  | the information ﬂows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, |  |

|  |  |  |
| --- | --- | --- |
|  | what changes the information, and where data is stored. |  |
| Sprint Delivery plan | Sprint Planning is an event in scrum that deﬁnes what can be delivered in the upcoming sprint and how that work will be achieved. It helps us to organise and complete the work eﬀectively and eﬃciently. | 22 October 2022 |
| Prepare milestone and activity list | Helps us understand and evaluate our progress and accuracy so far. | 23 October 2022 |
| Project Development - Delivery of Sprint-1 | Develop and submit the developed code by testing it. | In progress |