

Project Planing phase
Prepare Milestone and Activity List

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| Date | 31 October 2022 |
| Team ID | PNT2022TMID29671 |
| Project Name | Project- Traffic and Capacity Analytics for Major Ports |

| DURATION | MILESTONE | ASSIGNEE | STATUS | DESCRIPTION |
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| 1 WEEK | Data Collection-Download dataset | Kalpanaa VM Krithika PG Devashanmugapriyan Elangovan | Completed | The dataset for Traffic and Capacity Analytics is to be collected.The dataset which is considered will have the port information |
| 1 WEEK | Data Pre-processing 1.Renaming the coloumn names 2.Preparing calculations 3.Checking for NULL values 4.Checking for ouliers 5.Summarization of dataset 6.Label Encoding | Kalpanaa VM Krithika PG Devashanmugapriyan Elangovan | In-Progress | Preprocessing involves renaming the existing coloumn names into meaningful one,preparing calculations such as calculating traffic percent,checking for NULL values in the dataset. |
| 1 WEEK | Visualizing the dataset | Kalpanaa VM Krithika PG Devashanmugapriyan Elangovan | In-Progress | Visulaizing the dataset involves plotting the dataset using various plots and doing analysis on that. |
| 1 WEEK | Model Building 1.Building the model using suitable machine learning algorithm 2.Training and testing the model | Kalpanaa VM Krithika PG Devashanmugapriyan Elangovan | In -Progress | Using certain algorithms to build the model. Those algorithms include 1.Linear regression |

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| 1 WEEK | Dashboard Creation | Kalpanaa VM Krithika PG Devashanmugapriyan Elangovan | In-progress | Dashboard for visualizing the port status will be developed. |
| 1 WEEK | Ideation Phase 1. Litreature survey on the selected project and information gathering. 2. Prepare the empathy map. 3. Ideation | Kalpanaa VM Krithika PG Devashanmugapriyan Elangovan | Completed | Start the ideation process |
| 1 WEEK | Project Design Phase -1 1. Proposed solution. 2. Prepared fit solution 3. Solution Architecture | Kalpanaa VM Krithika PG Devashanmugapriyan Elangovan | Completed | Prepare the proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc. |
| 1 WEEK | Project Design Phase -2 1. Customer journey. 2. Functional requirements 3. Data flow diagram. 4. Technology architecture | Kalpanaa VM Krithika PG Devashanmugapriyan Elangovan | Completed | Prepare the customer journey maps to understand the user interactions & experiences with the application (entry to exit) ,Functional requirements and construct architecture |
| 1 WEEK | Project Planning Phase 1.Milestone Activity List 2.Sprint Delivery plan | Kalpanaa VM Krithika PG Devashanmugapriyan Elangovan | Completed | Prepare milestone activity list and sprint delivery plan for outline of work flow |
| 1 WEEK | Project Development Phase 1.Sprint -1 2.Sprint-2 3.Sprint-3 4.Sprint-4 | Kalpanaa VM Krithika PG Devashanmugapriyan Elangovan | In-Progress | Plan of each task sprint to be developed. |