**Project Planning Phase**

**Milestone and Activity List**

|  |  |
| --- | --- |
| Date | 08-11-2022 |
| Team ID | PNT2022TMID28596 |
| Project Name | Project - Natural Disaster Intensity Analysis and Classification using Artificial Intelligence |

|  |  |  |  |
| --- | --- | --- | --- |
| **Title** | **Milestone Number** | **Activity** | **Date** |
| Project Objectives | **M-1** | To know the fundamental concepts and techniques of the fundamental artificial neural network and convolutional neural network. | **25-09-2022** |
| Project Flow | **M-2** | Data collection, data preprocessing and model building are the activities to complete the project. | **25-09-2022** |
| Project Structure | **M-3** | The project structure that must be adhered to in order to construct Conversation Engine is as follows. | **26-09-2022** |
| Prerequisites | **M-4** | Prerequisites are the needs required for the implementation of the Various phases of the project. They help to render the relevant Technical information regarding the project. | **27-09-2022** |
| Prior Knowledge | **M-5** | We need to have prior knowledge in Supervised and unsupervised learning, Artificial Neural Network, Convolutional Neural Network, Regression classification and clustering and flask | **27-09-2022** |
| Collection Of Dataset | **M-6** | We are collecting data for building our project. We will be Creating two folders one for training and the other for testing. Images present in the training folder will be used for building the model and the testing images will be used for validating our model | **28-09-2022** |
| Image processing | **M-7** | Image pre-processing includes import imagedatagenerator library, configure imagedatagenerator class and applying imagedatagenerator functionalities to the train set and test set | **01-11-2022** |
| Model Building | **M-8** | Model building includes importing the necessary libraries, initialising the model, adding CNN and dense layers, configure the learning process and train the model. | **03-11-2022** |
| Application Building | **M-9** | Building a web application that is integrated into the model that built. A UI is provided for the uses where he has uploaded an image.  The uploaded image is given to the saved model and prediction is showcased on the UI. This section has the following tasks   * Building HTML Pages * Building server-side script | **05-11-2022** |
| Ideation Phase   |  | | --- | | Literature Survey | | **M-10** | Literature survey on the selected project & gathering information by referring the, technical papers, research publications etc. | **12-10-2022** |
| Ideation Phase   |  | | --- | | Empathy Map | | **M-11** | Prepare Empathy Map Canvas to capture the user Pains & Gains, Prepare list of problem statements | **28-09-2022** |
| Ideation Phase   |  | | --- | | Ideation | | **M-12** | Preparation of Literature Survey on the selected Project and Information Gathering, empathy map and ideation | **29-09-2022** |
| Project Design Phase-1   |  | | --- | | Proposed Solution | | **M-13** | Prepare the proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc. | **15-10-2022** |
| Project Design Phase-1   |  | | --- | | Problem Solution Fit | | **M-14** | Prepared Customer journey, functional requirements, Data flow diagram and Technology Architecture. | **15-10-2022** |
| Project Design Phase-1   |  | | --- | | Solution Architecture | | **M-15** | In this activity we have created solution architecture document and submitted. | **15-10-2022** |
| Project Design Phase-2   |  | | --- | | Customer Journey | | **M-16** | Prepare the user journey maps to understand the user interactions & experiences with the application (entry to exit). | **15-10-2022** |
| Project Design Phase-2   |  | | --- | | Functional Requirement | | **M-17** | Prepare the functional requirement document | **15-10-2022** |
| Project Design Phase-2   |  | | --- | | Data Flow Diagram | | **M-18** | Draw the data flow diagrams and submit for review. | **15-10-2022** |
| Project Design Phase-2   |  | | --- | | Technology Architecture | | **M-19** | Prepare the technology architecture diagram. | **15-10-2022** |
| Project Planning Phase   |  | | --- | | Milestone & Activity List | | **M-20** | Prepare the milestones & activity list of the project. | **09-11-2022** |
| Project Planning Phase   |  | | --- | | Sprint Delivery Plan | | **M-21** | Prepare the sprint delivery plan. | **09-11-2022** |
| Project Development Phase   |  | | --- | | Sprint-1 | | Sprint-2 | | Sprint-3 | | Sprint-4 | | **M-22** | Develop & submit the developed code by testing it. | In progress |