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| Date |  |
| Team ID |  |
| Project Name | Emerging methods for early detection of forest fires |
| Maximum Marks | 4Marks |

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| **S.No** | **MILESTONE** | **DESCRIPTION** | **DURATION** | **WORKING STATUS** |
| 1 | Project Objectives | Project objectives are what you plan to achieve by the end of your project. This might include deliverables and assets, or more intangible objectives like increasing productivity or motivation. |  |  |
| 2 | Project Flow | It is a visual aid to understand the methodology you're using to manage the project. The diagram shows the interdependent and parallel processes over the course of the project's life cycle. |  |  |
| 3 | Pre-Requisites | Prerequisites are all the needs at the requirement level needed for the execution of the different phases of a project. |  |  |
| 4 | Prior Knowledge | Prior knowledge is defined as all the knowledge one has before learning about a particular topic. |  |  |
| 5 | Data Collection | Artificial Intelligence is a data hunger technology, it depends heavily on data, without data, it is impossible for a machine to learn. It is the most crucial aspect that makes algorithm training possible. |  |  |
| 6 | Image Processing | Image Pre-processing includes the following main tasks   * Import ImageDataGenerator Library. * Configure ImageDataGenerator Class. * Applying ImageDataGenerator functionality to the trainset and test set. |  |  |
| 7 | Model Building | The neural network model is to be built by adding different network layers like convolution, pooling, flattening, dropout and neural layers.  In this milestone, we start building our model by:  1.Initializing the mode  2.Adding Convolution layers  3. Adding Pooling layers  4.Flatten layer  5.Full connection layers which include hidden layers |  |  |
| 8 | Video Analysis | In this process we open CV for Image processing, Creating an account in Twilio Service, Sending alert messages. |  |  |
| 9 | Train CNN Model on IBM | Train the Image classification Models on IBM Cloud using IBM Watson Studio Service. |  |  |
| 10 | Ideation Phase | Ideation is the process where we generate Literature survey on the selected project & gathered information, Empathy map, ideation. |  |  |
| 11 | Project Design Phase I | Project design phase I is the process where we design Proposed solution, Problem solution fit, Solution architecture. The aim is to develop one or more designs that can be used to achieve the desired project goals. |  |  |
| 12 | Project Design Phase II | Project design phase II is the process where we design Customer journey, Functional requirement, Data flow diagram, Technology architecture. |  |  |
| 13 | Project Planning Phase | Project planning phase is the process where we prepare Milestone & activity list, Sprint delivery plan. |  |  |
| 14 | Project Development Phase | Project development phase is the process where we develop Sprint 1, Sprint 2, Sprint 3, Sprint 4. |  |  |