Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

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| Date | 09 November 2022 |
| Team ID | |  | | --- | | PNT2022TMID28596 | |
| Project Name | Natural Disaster Intensity Analysis and Classification using Artificial  Intelligence |
| Maximum Marks | 8 Marks |

**Product Backlog, Sprint Schedule, and Estimation (4 marks)**

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| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story**  **Number** | **User Story / Task** | **Story**  **Points** | **Priority** | **Team Members** |
| Sprint-1 | Data Collection | USN-1 | As a user, I can collect the dataset from different images of cyclone, earthquake, wildfire and flood.. | 12 | Medium | Kaviyanjali.B  Keerthana.D  Akash.G |
| Sprint-1 | Data Pre-processing | USN-2 | As a user, I can load the dataset, scaling and split data into train and test. | 8 | High | Kaviyanjali.B  Keerthana.D |
| Sprint-2 | Model Building | USN-3 | As a user, I will get an application with ML model which provides high accuracy of images of cyclone, earthquake, wildfire and flood.. | 5 | High | Kaviyanjali.B  Keerthana.D  Ranjith S |
| Sprint-2 | Add CNN layers | USN-4 | Creating the model and adding the input, hidden, and output layers to it. | 4 | Medium | Kaviyanjali.B  Ranjith S |

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| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story**  **Number** | **User Story / Task** | **Story**  **Points** | **Priority** | **Team Members** |
| Sprint-2 | Compiling the model | USN-5 | With both the training data defined and model defined, it's time to configure the learning process. | 4 | Medium | Ranjith S  Akash.G |
| Sprint-2 | Train & test the model | USN-6 | As a user, let us train our model with our image dataset. | 3 | High | Keerthana D  Akash G |
| Sprint-2 | Save the model | USN-7 | As a user, the model is saved & integrated with an android application or web application in order to predict something. | 4 | Low | Kaviyanjali.B  Keerthana.D  Akash.G  Ranjith S |
| Sprint-3 | Building UI Application | USN-8 | As a user, we access the camera to capture a live video, grab the video frames from the video by looping over the frames and convert the captured frame image from BGR to RGB. | 10 | Medium | Keerthana D  Ranjith S |
| Sprint-4 | Train the model on IBM | USN-10 | As a user, I train the model and integrate them on IBM. | 9 | High | Kaviyanjali.B  Keerthana.D  Ranjith S |
| Sprint-4 | Cloud Deployment | USN-11 | As a user, I can access the web application and make the use of the product from anywhere. | 11 | High | Kaviyanjali.B  Keerthana.D  Akash.G  Ranjith S |