Project Planning Phase

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

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| Date | 06 November 2022 |
| Team ID | PNT2022TMID23834 |
| Project Name | Emerging Methods For Early Detection of Forest Fires. |
| Maximum Marks | 8 Marks |

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

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| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-1 | Registration | USN-1 | As an user, I can register for the application by entering my email, password, and confirming my password. | 2 | High | Ganesam Manasa,Anusha S,Gowsika RS,Malathiga D |
| Sprint-1 | User Confirmation | USN-2 | As an user, I will receive confirmation email  once I have registered for the application | 1 | Medium | Ganesam Manasa,Anusha S,Gowsika RS,Malathiga D |
| Sprint-1 | Login | USN-3 | As an user, I can log into the application by entering email & password | 2 | High | Ganesam Manasa,Anusha S,Gowsika RS,Malathiga D |
| Sprint-2 | Data Collection | USN-1 | Download the dataset used in Digital Naturalist – AI Enabled tools for Biodiversity Researchers | 2 | High | Ganesam Manasa |

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| Sprint-2 | Image Preprocessing | USN-1 | Improving the image data that suppresses unwilling distortions or enhances some image features important for further processing, although performing some geometric transformations of images like rotation, scaling, etc. | 1 | High | Ganesam Manasa,Anusha S,Gowsika RS,Malathiga D |
| Sprint-3 | Getting started with Convolutional Neural Network | USN-1 | Neural network are integral for teaching computers to think and learn by classifying information, similar to how we as humans learn. With neural networks, the software can learn to recognize images, for example. Machines can also make predictions and decisions with a high level of accuracy based on data inputs. | 2 | High | Ganesam Manasa,Anusha S,Gowsika RS,Malathiga D |
| Sprint-3 | Evaluation and model saving | USN-1 | well a model behaves after each iteration of optimization.  An accuracy metric is used to measure the algorithm's performance in an interpretable way. The accuracy of a model is usually determined after the model parameters and is calculated in the form of a percentage. Saving The Model get\_weights , set\_weights . | 1 | Medium | Ganesam Manasa,Anusha S,Gowsika RS,Malathiga D |
| Sprint-4 | Application Building | USN-2 | After the model is built, we will be integrating it to a web application so that normal users can also use it. The users need to give the images of species | 1 | High | Ganesam Manasa,Anusha S,Gowsika RS,Malathiga D |
| Sprint-4 | Train the Model on IBM | USN-3 | Build Deep learning model and computer vision Using the IBM cloud. | 2 | High | Ganesam Manasa,Anusha S,Gowsika RS,Malathiga D |

Project Tracker, Velocity & Burndown Chart: (4 Marks)

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| **Sprint** | **Total Story Points** | **Duration** | **Sprint Start Date** | **Sprint End Date (Planned)** | **Story Points Completed (as on Planned End Date)** | **Sprint Release Date (Actual)** |
| Sprint-1 | 20 | 4 Days | 24 Oct 2022 | 27 Oct 2022 | 20 | 29 Oct 2022 |
| Sprint-2 | 20 | 5 Days | 28 Oct 2022 | 01 Nov 2022 | 20 | 04 Nov 2022 |
| Sprint-3 | 20 | 8 Days | 02 Nov 2022 | 09 Nov 2022 | 20 | 11 Nov 2022 |
| Sprint-4 | 20 | 9 Days | 10 Nov 2022 | 18 Nov 2022 | 20 | 19 Nov 2022 |
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**Velocity:**

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let’s calculate the team’s average velocity (AV) per iteration unit (story points per day)

