

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

|               |   |
|---------------|---|
| Date          | 01 November 2022                                      |
| Team ID       | PNT2022TMID27160                                      |
| 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

| 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     | Kamalraj G<br>Udhaya L<br>Srinivas A<br>Dhusyanth R |
| Sprint-1 | User Confirmation             | USN-2             | As an user, I will receive confirmation email once I have registered for the application                   | 1            | Medium   | Srinivas A<br>Udhaya L                              |
| Sprint-1 | Login                         | USN-3             | As an user, I can log into the application by entering email & password                                    | 2            | High     | Kamalraj G<br>Dhusyanth R                           |
| Sprint-2 | Data Collection               | USN-1             | Download the dataset used in Digital Naturalist – AI Enabled tools for Biodiversity Researchers            | 2            | High     | Dhusyanth R<br>Udhaya L<br>Srinivas A<br>Kamalraj G |

|          |   |       |   |   |        |   |
|----------|---|-------|---|---|--------|---|
| 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   | Kamalraj G<br>Udhaya L<br>Dhusyanth R               |
| 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   | Srinivas A<br>Dhusyanth R<br>Kamalraj G<br>Udhaya L |
| 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<br>get_weights , set_weights . | 1 | Medium | Udhaya L<br>Srinivas A<br>Kamalraj G<br>Dhusyanth R |
| 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   | Kamalraj G<br>Udhaya L<br>Srinivas A                |
| Sprint-4 | Train the Model on IBM                            | USN-3 | Build Deep learning model and computer vision Using the IBM cloud.  | 2 | High   | Udhaya L<br>Srinivas A<br>Dhusyanth R<br>Kamalraj G |

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

| <b>Sprint</b> | <b>Total Story Points</b> | <b>Duration</b> | <b>Sprint Start Date</b> | <b>Sprint End Date (Planned)</b> | <b>Story Points Completed (as on Planned End Date)</b> | <b>Sprint Release Date (Actual)</b> |
|---------------|---------------------------|-----------------|--------------------------|----------------------------------|--|-------------------------------------|
| 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                         |
|               |                           |                 |                          |                                  |  |                                     |
|               |                           |                 |                          |                                  |  |                                     |
|               |                           |                 |                          |                                  |  |                                     |
|               |                           |                 |                          |                                  |  |                                     |

