# Project Planning Phase

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

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| Date | 11 November 2022 |
| Team ID | PNT2022TMID36441 |
| Project Name | Digital Naturalist-AI Enabled Tool For Biodiversity Researchers |
| 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 a user, I can register for the application by entering my email, password, and confirming my password. | 2 | High | S.Vasanth Kumar P.Dhanasekaran |
| Sprint-1 | | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 1 | High | B.Vasanth Kumar V.Shyam Sundhar |
| Sprint-1 | | USN-3 | As a user, I can register for the application through Facebook | 2 | Low | V.Kumaran |
| Sprint-1 | | USN-4 | As a user, I can register for the application through Gmail | 2 | Medium | V.Kumaran |
| Sprint-2 | Login | USN-5 | As a user, I can log into the application by entering email & password | 1 | High | S.Vasanth Kumar P.Dhanasekaran |
| Sprint-2 | Upload Design | USN-6 | When a User Login Correct ,The Upload page will show for upload the predict Image. | 2 | High | S.Vasanth Kumar B.Vasanth Kumar |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| Sprint-3 | Image Collection | USN-7 | All The Flora and Fauna Image will collected from the Kaggle.com | 1 | High | V.Shyam Sundhar V.Kumaran |
| Sprint-3 | Image Augmentation | USN-8 | Augment all the Collected image | 1 | High | S.Vasanth Kumar P.Dhana Sekaran |
| Sprint-3 | Load Data And Preprocessing | USN-9 | Loading the data set and Preprocess The loaded data | 1 | High | B.Vasanth Kumar V.Shyam Sundhar |
| Sprint-3 | Build The CNN model | USN-10 | Build the CNN model for Prediction | 1 | High | S.Vasanth Kumar V.Kumaran |
| Sprint-3 | Train and Test the Model | USN-11 | Train and Test CNN model | 1 | High | B.Vasanth Kumar V.kumaran |
| Sprint-4 | Evaluate and Save The Model | USN-12 | Evaluate The Trained Model and save the model | 2 | Medium | S.Vasanth kumar |
| Sprint-4 | Implement The Model | USN-13 | Implement The Saved Model in Created web application using Flask | 2 | High | P.Dhana Sekaran |
| Sprint-4 | Logout Design | USN-14 | Using Html Create Logout Page | 1 | High | V.Shyam Sundhar V.Kumaran |

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

| 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 | 6 Days | 24 Oct 2022 | 29 Oct 2022 | 20 | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | | |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | | |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 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)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

## Burndown Chart: