# Project Planning Phase

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

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|---|---|
| Date | 18 October 2022 |
| Team ID | PNT2022TMID27577 |
| Project Name | Digital Naturalist – AI Enabled tool for Biodiversity Researchers |
| Maximum Marks | 8 Marks |

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

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| Sprint-1 | **Modelling Phase** (Registration, Login, Backend) | USN-1 | As a user, I can register for the application by Entering my email, and password, and confirming mypassword. | 2 | High | Joeshibha K |
| | | USN-2 | As a user, I will receive a confirmation email once Ihave registered for the application. | 2 | Low | Jedidah Beryl Benita Solomon |
| | | USN-3 | As a user, I can log into the application by enteringmyemail & password. | 1 | Medium | Joeshibha K |
| | | USN-3 | Effective password verification | 1 | High | Nithila Rufina J |
| | | USN-4 | As a user, I can upload images to identify the species. | 3 | High | Ilayanila C. G |
| | | USN-5 | Datasets are collected to train the model. | 1 | High | Joeshibha K |
| Sprint-2 | **Development Phase** | USN-6 | The data is loaded and Pre-processed to train the model. | 3 | High | Jedidah Beryl Benita Solomon |
| | | USN-7 | Load the model with the Training dataset. | 6 | High | Nithila Rufina J |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| | (Optimization) | USN-8 | Evaluate the Model. | 5 | Medium | Jedidah Beryl Benita Solomon |
| | | USN-8 | Optimize the model for efficiency | 3 | Medium | Ilayanila C. G |
| Sprint-3 | **Deployment Phase** (Flask Integration) | USN-9 | The application is built using Python Flask. | 7 | High | Joeshibha K |
| | | USN-10 | The model is loaded into Python Flask. | 7 | High | Jedidah Beryl Benita Solomon |
| Sprint-4 | **Deployment Phase** (Testing, Logout) | USN-11 | As a user, I can view the species details. | 3 | Medium | Nithila Rufina J |
| | | USN-11 | As a user, I can view the statistical visualization. | 3 | Medium | Ilayanila C. G |
| | | USN-12 | As a user, I can logout of the application. | 2 | Low | Nithila Rufina J |

**Project Tracker, Velocity & Burn down 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 | 10 | 6 Days | 22 Oct 2022 | 27 Oct 2022 | 10 | 27 Oct 2022 |
| Sprint-2 | 17 | 6 Days | 29 Oct 2022 | 03 Nov 2022 | 17 | 04 Nov 2022 |
| Sprint-3 | 14 | 6 Days | 05 Nov 2022 | 10 Nov 2022 | 14 | 10 Nov 2022 |
| Sprint-4 | 8 | 6 Days | 13 Nov 2022 | 18 Nov 2022 | 8 | 19 Nov 2022 |

**Velocity:**

For Sprint-1 the Average Velocity (AV) is:

$$AV = Sprint\ Duration\ /\ velocity = 10\ /\ 6 = 1.6$$

For Sprint-2 the Average Velocity (AV) is:

$$AV = Sprint\ Duration\ /\ velocity = 18\ /\ 6 = 3.0$$

For Sprint-3 the Average Velocity (AV) is:

$$AV = Sprint\ Duration\ /\ velocity = 14\ /\ 6 = 2.3$$

For Sprint-4 the Average Velocity (AV) is:

$$AV = Sprint\ Duration\ /\ velocity = 8\ /\ 6 = 1.3$$

***TOTAL AVERAGE VELOCITY = 2.05***

## Burndown chart: