**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 22 October 2022 |
| Team ID | PNT2022TMID47172 |
| 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 | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | 2 | High | Abinaya M |
| Sprint-1 |  | USN-2 | As a user, I will receive confirmation email once I have registered for the application. | 2 | Low | Mouniga C |
| Sprint-1 | Login | USN-3 | As a user, I can log into the application by entering email & password. | 1 | Medium | Kowsalya S |
| Sprint-1 |  | USN-4 | As a user, I can upload the image to identify the species. | 3 | High | Mary Benita I |
| Sprint-1 | Dataset collection | USN-5 | Datasets are collected to train the model. | 2 | High | Abinaya M |
| Sprint-2 | Data Pre-processing | USN-6 | The data is loaded and Pre-processed to train the model. | 4 | High | Mouniga C |
| Sprint-2 | Build and Train the model | USN-7 | The model is trained using Training dataset. | 8 | High | Kowsalya S |
| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-2 | Evaluate the model | USN-8 | The model is evaluated. | 6 | High | Mary Benita I |
| Sprint-3 | Create Application | USN-9 | Application is built using Python Flask. | 8 | Medium | Abinaya M |
| Sprint-3 | Load the model | USN-10 | The model is loaded into Python Flask. | 6 | High | Mouniga C |
| Sprint-4 | Species identification | USN-11 | As a user, I can view the species details. | 6 | Medium | Kowsalya S |
| Sprint-4 | Logout | USN-12 | As a user, I can logout of the application. | 2 | Low | Mary Benita I |

# 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 | 10 | 6 Days | 24 Oct 2022 | 29 Oct 2022 |  | 29 Oct 2022 |
| Sprint-2 | 18 | 6 Days | 31 Oct 2022 | 05 Nov 2022 |  |  |
| Sprint-3 | 14 | 6 Days | 07 Nov 2022 | 12 Nov 2022 |  |  |
| Sprint-4 | 8 | 6 Days | 14 Nov 2022 | 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:**

