**Project Planning Phase**

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

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| --- | --- |
| Date | 18 October 2022 |
| Team ID | PNT2022TMID20770 |
| Project Name | Digital Naturalist – AI-Enabled tool for Biodiversity Researchers |
| Maximum Marks | 8 Marks |

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

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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 a user, I can register for the application by  Entering my email, and password, and confirming my password. | 2 | High | Ram Shankar B |
| Sprint-1 |  | USN-2 | As a user, I will receive a confirmation email once I have registered for the application. | 2 | Low | Pagutharivu |
| Sprint-1 | Login | USN-3 | As a user, I can log into the application by entering my email & password. | 1 | Medium | Jaikrishna |
| Sprint-1 |  | USN-3 | Effective password verification | 1 | High | Venkata Surya Prakash |
| Sprint-1 |  | USN-4 | As a user, I can upload images to identify the species. | 2 | High | Pagutharivu |
| Sprint-1 | Backend | USN-5 | Datasets are collected to train the model. | 2 | High | Ram Shankar B |
| Sprint-2 |  | USN-6 | The data is loaded and Pre-processed to train the model. | 4 | High | Mukund R S |
| Sprint-2 |  | USN-7 | The model is trained using the Training dataset. | 8 | High | Mukund R S |

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| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-2 | Optimization | USN-8 | The model is evaluated. | 3 | Medium | Ram Shankar B |
| Sprint-2 |  | USN-8 | The model is optimized. | 3 | Medium | Jaikrishna |
| Sprint-3 | Flask Integration | USN-9 | The application is built using Python Flask. | 8 | High | Mukund R S |
| Sprint-3 |  | USN-10 | The model is loaded into Python Flask. | 6 | High | Jaikrishna B |
| Sprint-4 | Testing | USN-11 | As a user, I can view the species details. | 3 | Medium | Venkata Surya Prakash |
| Sprint-4 |  | USN-11 | As a user, I can view the statistical visualization. | 3 | Medium | Venkata Surya Prakash |
| Sprint-4 | Logout | USN-12 | As a user, I can logout of the application. | 2 | Low | Ram Shankar B |

**Project Tracker, Velocity & Burn down 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 | 10 | 6 Days | 21 Oct 2022 | 26 Oct 2022 | 10 | 26 Oct 2022 |
| Sprint-2 | 18 | 6 Days | 28 Oct 2022 | 02 Nov 2022 | 18 | 02 Nov 2022 |
| Sprint-3 | 14 | 6 Days | 04 Nov 2022 | 09 Nov 2022 |  |  |
| Sprint-4 | 8 | 6 Days | 11 Nov 2022 | 16 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:**

