**Project Planning Phase**

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

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| --- | --- |
| Date | 18 October 2022 |
| Team ID | PNT2022TMID52927 |
| Project Name | Project – Detecting Parkinson’s Disease Using Machine Learning |
| 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 | Data Collection | USN-1 | As a developer, I need to collect the data, which are the hand drawn spiral and wave images which is done by the patient. | 5 | Medium | Krishna Chaitanya Dutt  Aditya HC |
| Sprint-1 | Image Pre-Processing | USN-2 | As a developer, I want to pre-process the image by converting it from RGB to grayscale and resizing. | 5 | High | Krishna Chaitanya Dutt  Aditya HC |
| Sprint-1 | Model Building 1 | USN-3 | As a developer, I want to use Histogram of Oriented Gradients (HOG) to extract the features of the images. | 5 | High | Krishna Chaitanya Dutt  Aditya HC |
| Sprint-2 | Model Building 2 | USN-4 | As a developer, I want to use Random Forest Classifier to classify the data into Normal and Parkinson’s. | 10 | Medium | Kishore  Eshwar Nevedh SK |
| Sprint-2 | Model Deployment | USN-5 | As a developer, I want to deploy the ML Model which I built. | 5 | High | Kishore  Eshwar Nevedh SK |
| Sprint-3 | Application Building | USN-6 | As a developer, I want to build an app which a person can use to check whether the user has Parkinson’s disease or not. | 10 | High | Kishore  Eshwar Nevedh SK |

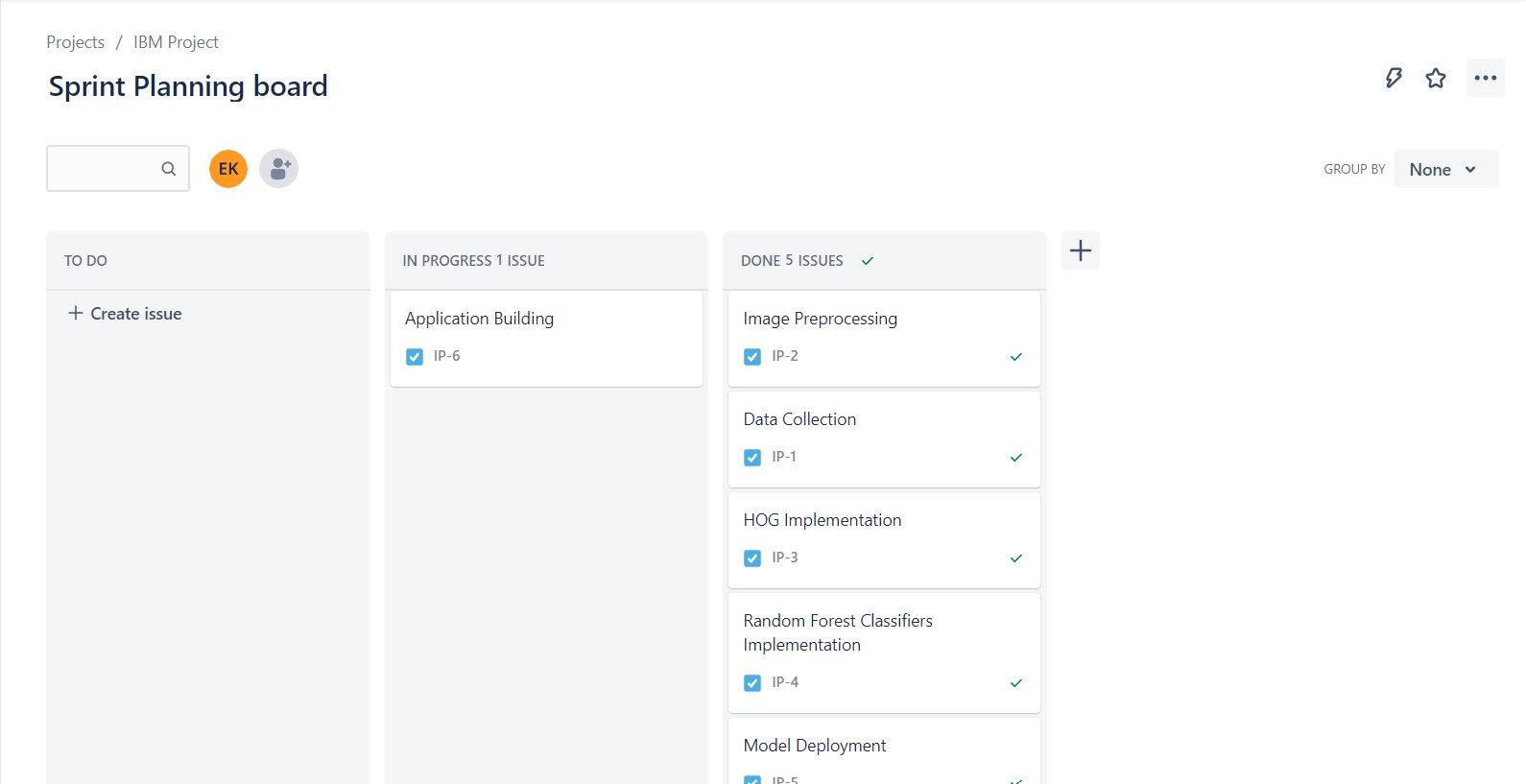
**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

| **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 | 15 | 8 Days | 24 Oct 2022 | 31 Oct 2022 | 15 | 31 Oct 2022 |
| Sprint-2 | 15 | 8 Days | 1 Nov 2022 | 08 Nov 2022 | 10 | 09 Nov 2022 |
| Sprint-3 | 10 | 8 Days | 08 Nov 2022 | 15 Nov 2022 | 15 | 15 Nov 2022 |
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**Velocity:**

* SPRINT 1 = 15/8 = 1.875
* SPRINT 2 = 15/8 = 1.875
* SPRINT 3 = 10/8 = 1.25

**Burndown Chart:**

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