**Project Planning Phase**

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

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| --- | --- |
| Date | 30 October 2022 |
| Project Name | Project – Novel method for Handwritten digit recognition |
| 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 | Collects the different handwritten digits along with the handwritten mathematical symbols(+,-,\*,/) | 2 | High | Vigneshkumar,Sanjaykumar |
| Sprint-1 | Data Preprocessing | USN-2 | Preprocess the Collected data like scaling ,resizing the images etc | 1 | High | pennycuick |
| Sprint-2 | Model Building | USN-3 | Build the CNN Model | 1 | Medium | sanjaykumar |
| Sprint-2 | Compiling Model | USN-4 | Compile the built model | 1 | Medium | Vigneshkumar |
| Sprint-2 | Train the model | USN-5 | Train the built model using the datasets | 1 | High | Sanjaykumar |
| Sprint -2 | Save the model | USN-6 | Save the trained model weights | - | Medium | Umamaheswaran,Pennycuick |
| Sprint-3 | Evaluate the user given arithmetic expression | USN-7 | User should give the handwritten arithmetic expression, the model should give the correct result | 1 | High | Sanjaykumar,Vigneshkumar |
| Sprint -4 | Build the web app | USN-8 | User should upload the image using web app and the answer should be displayed in the web app | 1 | Medium | Vigneshkumar |

**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 | 31 Oct 2022 | 20 | 31 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)

