

## Project Planning Phase

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

|               |   |
|---------------|---|
| Date          | 22 October 2022   |
| Team ID       | PNT2022TMID35495  |
| Project Name  | A Novel Method for Handwritten Digit Recognition System |
| 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             | Collect Dataset .   | 9            | High     | Akilan R M                         |
| Sprint-1 |   | USN-2             | Reshape the data and apply one hot encoding                                   | 8            | Medium   | Sooraj D,<br>Thaanish<br>Ahmed K K |
| Sprint-2 | Model Building  | USN-3             | Import the required libraries, add the necessary layers and compile the model | 10           | High     | Sooraj D                           |
| Sprint-2 |   | USN-4             | Training the image classification model using CNN                             | 7            | Medium   | Stephen Jayaraj A                  |
| Sprint-3 | Training and Testing                                      | USN-5             | Building Python code and run the application                                  | 9            | High     | Thaanish Ahmed<br>K K              |
| Sprint-4 | Implementation of the application and deployment on cloud | USN-6             | Training the model on IBM cloud.  | 8            | Medium   | Stephen Jayaraj<br>A, Akilan R M   |

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

| <b>Sprint</b> | <b>Total Story Points</b> | <b>Duration</b> | <b>Sprint Start Date</b> | <b>Sprint End Date (Planned)</b> | <b>Story Points Completed (as on Planned End Date)</b> | <b>Sprint Release Date (Actual)</b> |
|---------------|---------------------------|-----------------|--------------------------|----------------------------------|--|-------------------------------------|
| Sprint-1      | 10                        | 6 Days          | 24 Oct 2022              | 29 Oct 2022                      | 8  | 29 Oct 2022                         |
| Sprint-2      | 10                        | 6 Days          | 31 Oct 2022              | 04 Nov 2022                      | 5  | 04 Nov 2022                         |
| Sprint-3      | 10                        | 6 Days          | 07 Nov 2022              | 11 Nov 2022                      | 7  | 11 Nov 2022                         |
| Sprint-4      | 10                        | 6 Days          | 14 Nov 2022              | 18 Nov 2022                      | 5  | 18 Nov 2022                         |

**Velocity:**

$$AV = \frac{\textit{sprint duration}}{\textit{velocity}}$$

$$AV = 6/10 = 0.6$$

**Burndown chart:**

