Project Planning Phase

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

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| Date | 29 October 2022 |
| Team ID | PNT2022TMID00805 |
| Project Name | Project – A Novel Method for Handwritten Digit Recognition System |
| 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 | Understanding the data | USN-1 | Import MNIST data for handwritten digit recognition prediction, and analyse the data | 8 | Medium | Keerthivashan,  Madhan Manoharan |
| Sprint-1 | Data cleaning | USN-2 | Reshape the data, and apply one hot encoding to data | 12 | High | Mohammed Abdullah,  Lokesh.P |
| Sprint-2 | Model building | USN-3 | Add CNN layers to train the model by compiling it. | 8 | High | Keerthivashan, Madhan Manoharan |
| Sprint-2 | Optimizing model performance | USN-4 | Test the model after saving, and observe the metrics to retrain if required efficiency is not met. | 12 | High | Mohammed Abdullah,  Lokesh.P |
| Sprint-3 | Application User Interface | USN-5 | Create an Html files for home page and output result, with CSS styling. | 8 | Medium | Lokesh.P,  Madhan Manoharan |
| Sprint-3 | Application Backend | USN-6 | Create backend using flask | 12 | High | Keerthivashan,  Mohammed Abdullah |
| Sprint-4 | IBM cloud registration | USN-7 | Register for IBM Cloud | 4 | Low | Lokesh.P,  Madhan Manoharan |
| Sprint-4 | Configuration | USN-8 | Train the model in IBM cloud | 8 | Medium | Mohammed Abdullah, Keerthivashan |
| Sprint-4 | Deployment | USN-9 | Deploy in the trained model in cloud | 8 | Medium | Madhan Manoharan, Lokesh.P |

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

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| --- | --- | --- | --- | --- |
| **Sprint** | **Total Story Points** | **Duration** | **Sprint Start Date** | **Sprint End Date (Planned)** |
| Sprint-1 | 20 | 6 Days | 24 Oct 2022 | 29 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 |

Velocity:

