**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 29 October 2022 |
| Team ID | PNT2022TMID31968 |
| Project Name | Intelligent vehicle damage assessment & cost estimator for insurance companies |
| 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 | Registration | USN-1 | As an owner of a particular vehicle, I can log into the application by entering email & password. | 2 | High | DHEVAK A   GOBI B   HARIKRISHNAA S   SINTHANA G |
| Sprint-1 | User Confirmation | USN-2 | As an owner of a particular  Vehicle , I will receive confirmation email once I have registered for the application. | 1 | Medium | DHEVAK A   GOBI B   HARIKRISHNAA S   SINTHANA G |
| Sprint-1 | Login | USN-3 | As an owner of a particular vehicle, I can log into the application by entering email & password. | 2 | High | DHEVAK A   GOBI B   HARIKRISHNAA S   SINTHANA G |
| Sprint-2 | Data Collection | USN-1 | Download the dataset used in intelligent vehicle damage assessment & cost estimator for insurance companies. | 2 | High | DHEVAK A   GOBI B   HARIKRISHNAA S   SINTHANA G |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-2 | Image Pre Processing | USN-1 | Improve the image data that suppresses unwilling distortions or enhances some image features important for further processing, although performing some geometric transformations of images like rotation, scaling, etc. | 2 | High | DHEVAK A   GOBI B   HARIKRISHNAA S   SINTHANA G |
| Sprint-3 | Model Building | USN-1 | Define the model architecture and adding CNN layer and testing  , saving the model. | 2 | High | DHEVAK A   GOBI B   HARIKRISHNAA S   SINTHANA G |
| Sprint-3 | Cloud DB | USN-1 | Below are steps that need to follow for creating and using cloud service.   * Register & login to IBM cloud * Create service instance * Creating service credentials * Launch cloud DB * Create database | 2 | High | DHEVAK A   GOBI B   HARIKRISHNAA S   SINTHANA G |
| Sprint-4 | Application Building | USN-1 | Building a web application that  is integrated into the model we built. A UI is provided to the user where he has uploaded the image. Based on the saved model, the uploaded image will be analyzed and prediction is showcased on the UI. | 2 | High | DHEVAK A   GOBI B   HARIKRISHNAA S   SINTHANA G |
| Sprint-4 | Train The Model On IBM | USN-1 | Build Deep learning model and computer vision Using the IBM cloud. | 2 | High | DHEVAK A   GOBI B   HARIKRISHNAA S   SINTHANA G |

**Project Tracker, Velocity & Burn down 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 | 4 Days | 24 Oct 2022 | 27 Oct 2022 | 20 | 29 Oct 2022 |
| Sprint-2 | 20 | 5 Days | 28 Oct 2022 | 01 Nov 2022 | 20 | 04 Nov 2022 |
| Sprint-3 | 20 | 8 Days | 02 Nov 2022 | 09 Nov 2022 | 20 | 11 Nov 2022 |
| Sprint-4 | 20 | 9 Days | 10 Nov 2022 | 18 Nov 2022 | 20 | 19 Nov 2022 |

**Velocity :**

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)

AV= Sprint duration/Velocity

= 20/6

= 3

**Burn down Chart :**

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

