**Project Planning Phase**

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

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| --- | --- |
| **Date** | 19.10.2022 |
| **Team ID** | PNT2022TMID41963 |
| **Title** | Signs with Smart Connectivity for Better Road Safety |

**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 a user, I can register on the website by entering my email, password, and confirming my password. | 3 | High | Syed Hussain S |
| Registration | USN-2 | As a user, I will receive confirmation email once I have registered on the website. | 3 | High | Maanish J |
| Login | USN-3 | As a user, I can log into the website by entering email & password. | 1 | Low | Tamilarasan T |
| Develop UI | USN-4 | Develop UI for the website | 3 | High | Sanjay R |

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| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story**  **Number** | **User Story / Task** | **Story Points** | **Priority** | **Team**  **Members** |
| Sprint-2 | Dashboard | USN-1 | As a user, I can view details of road rules and safety. | 2 | Medium | Syed Hussain S |
| Dashboard | USN-2 | As a user, I can check if there are any fines charged on me. | 2 | Medium | Maanish J |
| Admin | USN-3 | As an admin, I can login to the website using my credentials | 3 | High | Tamilarasan T |
| Admin | USN-4 | As an admin, I can access the data regarding any traffic violations and I can charge fines. | 3 | High | Sanjay R |

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| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story**  **Number** | **User Story / Task** | **Story Points** | **Priority** | **Team**  **Members** |
| Sprint-3 | API Integration | USN-1 | Integrate the necessary API’s. | 3 | High | Syed Hussain S |
| Data Collection | USN-2 | Collect data for image processing | 2 | Medium | Maanish J |
| API Data | USN-3 | Check data from weather and map API. | 2 | Medium | Tamilarasan T |
| Hardware Integration | USN-4 | Integrate NodeMCU, Display, Speed Cam with Raspberry Pi. | 3 | High | Sanjay R |

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| --- | --- | --- | --- | --- | --- | --- |
| **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 | 10 | 6 Days | 24 Oct 2022 | 29 Oct 2022 | 10 | 29 Oct 2022 |
| Sprint-2 | 10 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 10 | 05 Nov 2022 |
| Sprint-3 | 10 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 10 | 12 Nov 2022 |
| Sprint-4 | 10 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 10 | 19 Nov 2022 |

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| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story**  **Number** | **User Story / Task** | **Story Points** | **Priority** | **Team**  **Members** |
| Sprint-4 | Code for Raspberry  Pi | USN-1 | Develop code to implement API data in Raspberry Pi | 3 | High | Syed Hussain S |
| Code for NodeMCU | USN-2 | Develop code to display data in the display screen. | 3 | High | Maanish J |
| Image Processing | USN-3 | Develop code to process the image taken from camera | 3 | High | Tamilarasan T |
| Display and cloud | USN-4 | Deploy the data to the display screen and upload it to the cloud and website | 1 | Low | Sanjay R |

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



**Burndown Chart:**

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile [software development](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies such as [Scrum.](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/) However, burn down charts can be applied to any project containing measurable progress over time.

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