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

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|---|---|
| **Date** | 18 October 2022 |
| **Team ID** | PNT2022TMID41909 |
| **Project Name** | Signs with Smart Connectivity for Better Road Safety |
| **Maximum Marks** | 8 Marks |

**Product Backlog, Sprint Schedule, and Estimation:**

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| Sprint-1 | IBM Watson IOT Platform confirm | USN-1 | Getting into  IBM Watson IOT Platform confirm, To create a New device and then Enter the Device Type, Device ID and separate the Organization ID, Authentication tokens in it. | 1 | Low | Santhosh |
| | Cloudant DB | USN-2 | - Getting into Cloud DB to store out data in it and can be retrieved when the database is called.<br>- Create a database in cloudant DB and to store the location data | 2 | Low | Santhosh |
| Sprint-2 | Node-Red | USN-3 | Develop the web application Using node-red | 2 | Medium | Kowsalya |
| | | USN-4 | Open the Node Red and creating a design flow how the process will be work and connecting it with wold map and IBM  Watson and cloudant DB | 2 | Medium | Kowsalya |
| Sprint-3 | weather. | USN-5 | Open the weather app account go to the API key, copy the key. Then enter the python code for weather and then, past the key values in that code. | 2 | High | Monishkumar |
| | location | USN-6 | - Getting into the python code and Write a Python program to find the location of near by and weather condition.<br>- And then to publish the location details to the IBM IOT platform. | 2 | High | Monishkumar |
| Sprint-4 | Testing | USN-7 | Optimize all the short comings and provide better user experience. | 2 | Medium | Manojkumar |

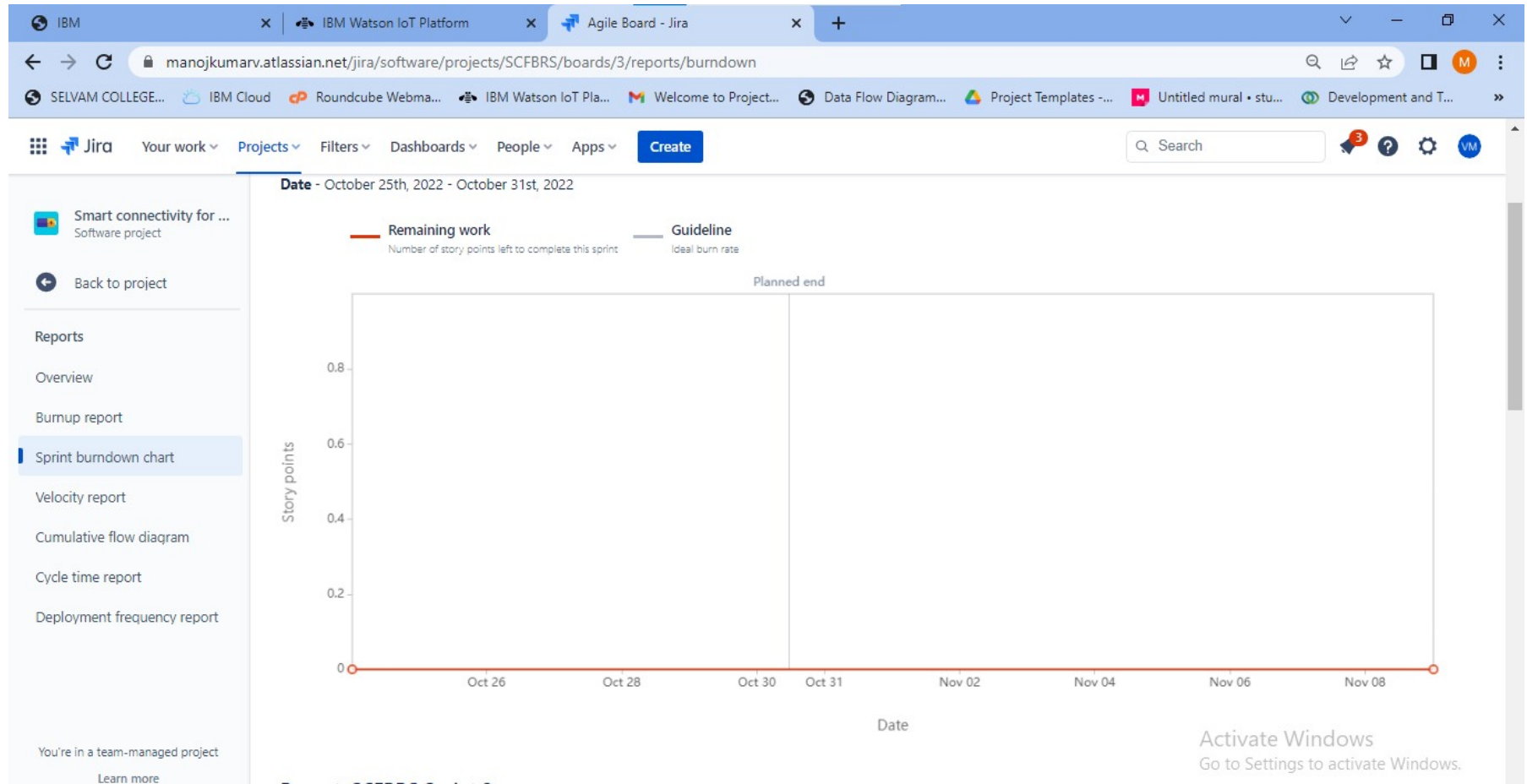**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

| 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 | 29 Oct 2022 | 20 | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 20 | 05 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 | 12 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 20 | 19 Nov 2022 |

**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)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

## Burndown Chart:

## Road map: