

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

Date	08 NOVEMBER 2022
Team ID	PNT2022TMID422266
Project Name	Project - Signs with smart connectivity for better road safety
Maximum Marks	6 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Resources Initialization	USN-1	Create and initialize accounts in various public API like Open Weather API.	13	Low	Jayaprakash S Balaa Rupeni S
Sprint-1	Resources Initialization	USN-2	Register for the open watson platform and node red services in the IBM cloud.	5	Medium	Mukil Arasi S Naveen Kumar T
Sprint-2	Node Red Software is used	USN-3	Create a web using Node Red to display the open weather map data, then develop a Python script to retrieve the data from the API. Sending the data to the IBM cloud by python script for the better accessing from anywhere	10	Medium	Balaa Rupeni S Naveen Kumar T
Sprint - 2	Sending the data to IBM cloud	USN - 4	Develop a web using Node Red for displaying open weather map data, by accessing the data from IBM watson	20	Low	Mukil Arasi S Jayaprakash S

Sprint-3	GPS module Interconnection	USN-5	Schools, hospitals, and other public spaces are continuously tracked using GPS technology; data is gathered using a Python script, and it is shown in a web user interface.	20	High	Mukil Arasi S Naveen Kumar T Balaa Rupeni S Jayaprakash S
Sprint-4	Data collection	USN-6	Traffic and catastrophic situations information is collected as a data and encoded.	20	Medium	Mukil Arasi S Naveen Kumar T Balaa Rupeni S Jayaprakash S
Sprint-4	Setup	USN-7	Collected datas from sprint 2 and 3 is deployed in Node Red service to link online API's	20	High	Mukil Arasi S Naveen Kumar T Balaa Rupeni S Jayaprakash S

Sprint	Functional Requirement	User Story Number	User Story / Task	Story Points	Priority	Team Members
	Service & Debugging		Better user experience.		High	Mukil Arasi S Naveen Kumar T Balaa Rupeni S Jayaprakash S

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 NOV2022

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:

The average velocity (AV) per iteration unit (story points per day) can be defined as sprint duration by velocity (points per sprint)

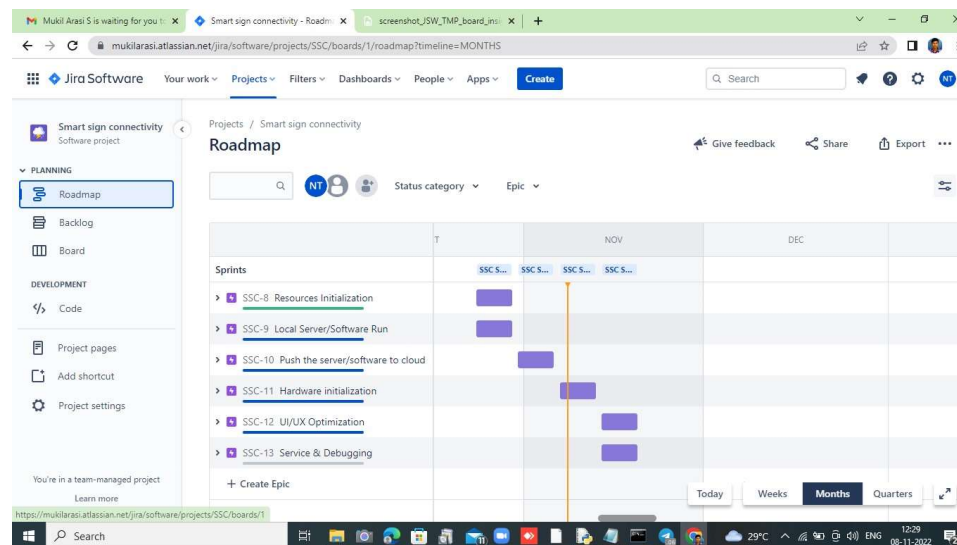
$$(AV = \text{Sprint duration} / \text{Velocity})$$

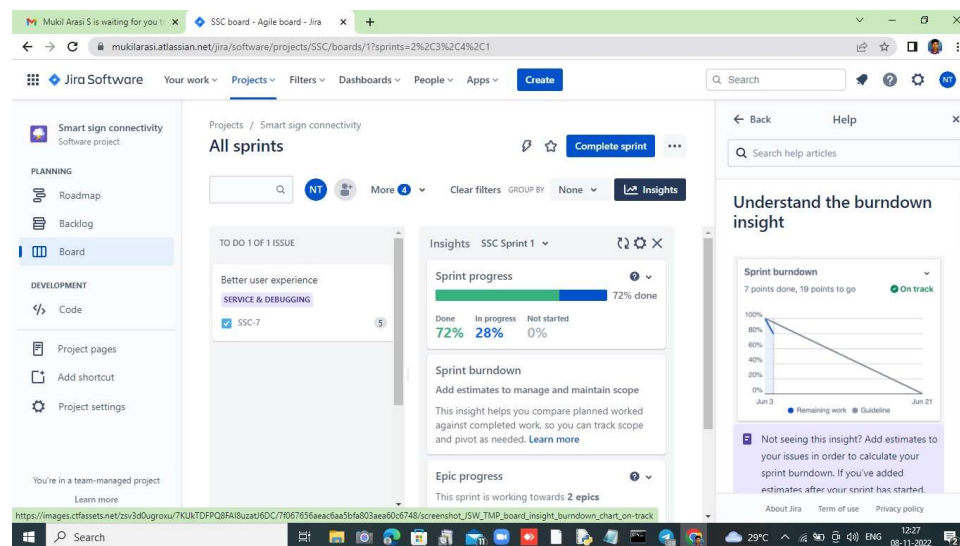
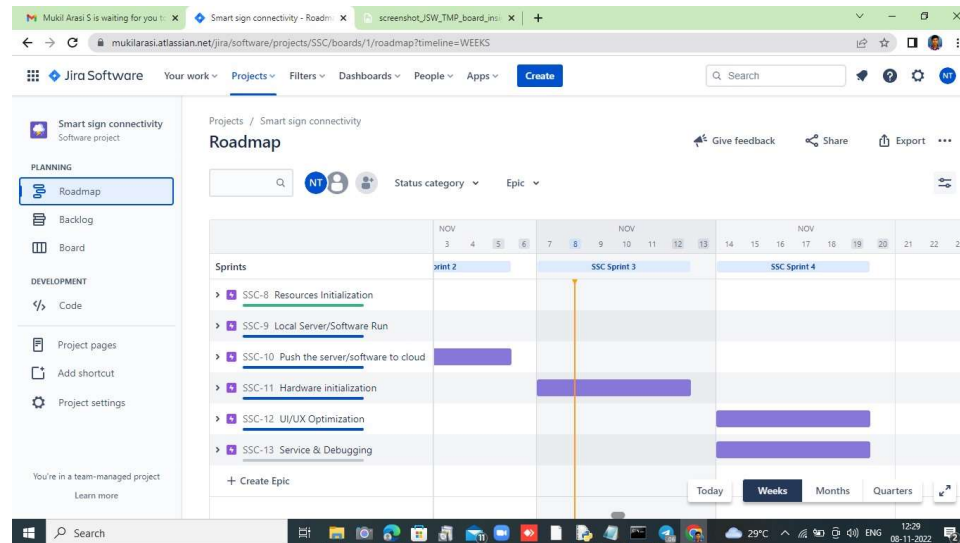
Given:

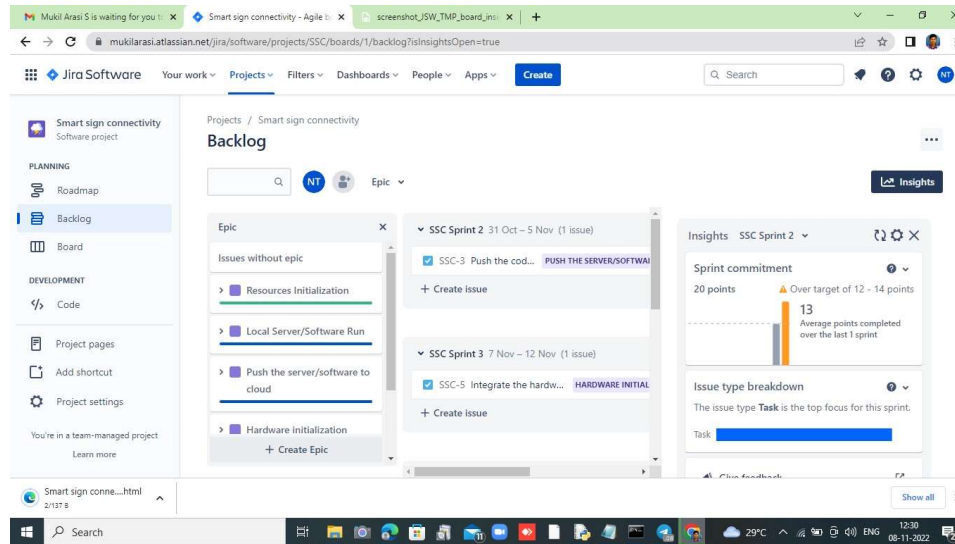
Sprint duration = 6days Velocity = 20 AV = 6 / 20 = 0.3

AV = 0.3

JIRA SOFTWARE







Burndown Chart:

