

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

<b>Team Id</b>	<b>PNT2022TMID24186</b>
<b>Assignment date</b>	<b>8 NOV 2022</b>
<b>Project Name</b>	<b>Hazardous area monitoring for industrial plant powered by IOT</b>
<b>Maximum Marks</b>	<b>8 Marks</b>

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

Use the below template to create product backlog and sprint schedule

<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>
<b>Sprint-1</b>	Installation of Beacons	USN-1	First the Admin will be installing smart beacons at necessary places.	15	High
<b>Sprint-1</b>	Providing Wearables	USN-1	The Admin will be providing everyone at the Industry a wearable device.	5	Medium
<b>Sprint-2</b>	Cloud Setup	USN-2	The smart Beacons will connect with the cloud services. Where we can get the realtime data from the wearable	20	High
<b>Sprint-3</b>	Online Monitoring via Web	USN-3	Websites will be created and connected with the cloud service	20	High
<b>Sprint-4</b>	Monitoring via Mobile	USN-4	Mobile Application will be created and fast sms will be used to alert abnormality to the user.	20	High

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

<b>Sprint</b>	<b>Total Story Points</b>	<b>Duration</b>	<b>Sprint Start Date</b>	<b>Sprint End Date (Planned)</b>
Sprint-1	20	2Days	1 NOV 2022	3 NOV 2022
Sprint-2	20	2 Days	4 NOV 2022	06 Nov 2022
Sprint-3	20	3 Days	07 NOV 2022	10Nov 2022
Sprint-4	20	2 Days	10 NOV2022	12 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)

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