

## Project Planning Phase

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

#### 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 (Parent Mobile User)	USN-1	Registering for an application, as a user we can register by entering our email, password and again, we need to confirm the password	3	High	Tharunya G
Sprint-1	Login	USN-2	If we have register for the application as a user a confirmation mail will be received to our mail	3	High	Dharani S
Sprint-2	User Interface	USN-3	Using Facebook, we can register for this application	3	Low	Ramya.M
Sprint-1	Data Visualization	USN-4	We can also register for the application through Gmail	3	Medium	Selva sudha.A.S
Sprint-3	Login	USN-5	As a user, I can log into the application by entering email & password	3	Low	Tharunya G
Sprint-1	Dashboard	USN-5	We need to be able to view the function that can perform	4	High	Dharani S
Sprint-2	Notification	USN-1	Using minimum time, we should be able to notify their parent and guardian	4	High	Ramya.M
Sprint-1	Store data	USN-2	We need to continuously store location data into the database	3	Medium	Selva sudha.A.S
Sprint-4	Web UI	USN-3	We all will need a friendly interface to view and access the resource easily	3	Medium	Tharunya G
Sprint-3	Registration (Parent Web User)	USN-1	By entering email and password we can log into the application as a user	3	High	Dharani S
Sprint-2	Login	USN-2	Using minimum time, we need to login to registered account via web page	3	High	Ramya.M
Sprint-4	Web UI	USN-3	To easily view and access the resources we need a user-friendly interface	3	Medium	Selva sudha.A.S

**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>	<b>Story Points Completed (as on Planned End Date)</b>	<b>Sprint Release Date (Actual)</b>
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)

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

### 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 methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

