

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

<b>Date</b>	24 October 2022
<b>Team ID</b>	PNT2022TMID05063
<b>Project Name</b>	Personal Expense Tracker Application
<b>Maximum Marks</b>	8 Marks

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

<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>Team Members</b>
Sprint-1	Registration,Login	USN-1	As an User, I can register for the application by entering my email, password, and confirming my password and I can log into the application by entering email and password.	2	High	Shanmuga Parimalam R Rajesh V
Sprint-1	Dashboard	USN-2	As an user, I can Login to the Application by entering correct login credentials and I will be able to Access My dashboard.	2	High	Mukilan M Sasson Taffwin Moses S
Sprint-2	Work Space,Charts	USN-3	There will be a work space for the register user for personal expense tracking and creating various graphs and statistics of user data.	2	Medium	Mukilan M Sasson Taffwin Moses S
Sprint-2	Connecting to IBM DB2	USN-4	Linking the database with dashboard and making dashboard more interactive with the JavaScript	2	High	Shanmuga Parimalam R Rajesh V
Sprint-3	Watson Assistant, Send Grid	USN-5	Creating Chatbot for the expense tracking and for clarifying user's query and using sendgrid to send mail to the user about their expenses	2	High	Shanmuga Parimalam R Rajesh V
Sprint-4	Docker,Cloud Registry	USN-6	Creating image of website using docker and uploading the docker image to IBM Cloud Registry.	2	High	Mukilan M Sasson Taffwin Moses S

Sprint-4	Kubernetes,Exposing	USN-7	Create container using a docker image and hosting the site and also exposing IP/ports for the site	2	High	Shanmuga Parimalam R Rajesh V
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### 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	7 Days	24 Oct 2022	30 Oct 2022		30 Oct 2022
Sprint-2	20	7 Days	31 Oct 2022	06 Nov 2022		06 Nov 2022
Sprint-3	20	8 Days	07 Nov 2022	14 Nov 2022		14 Nov 2022
Sprint-4	20	7 Days	14 Nov 2022	21 Nov 2022		21 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 burndown 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.

