

## Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID48343
Project Name	Project -Personal Expense Tracker Application
Maximum Marks	8 Marks

#### 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	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Deepa
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Jeyadharshini
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password	1	High	Swetha
Sprint-1	Dashboard	USN-4	Logging in takes to the dashboard for the logged user	2	High	Kavibharathi
Sprint-2	Workspace	USN-1	Workspace for personal expense tracking	2	High	Deepa
Sprint-2	Charts	USN-2	Creating various graphs and statistics of customer's data	1	Medium	Jeyadharshini
Sprint-2	Connecting to IBM DB22	USN-3	Linking database with dashboard	2	High	Swetha
Sprint-2		USN-4	Making dashboard interactive with JS	2	High	Kavibharathi

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3		USN-1	Wrapping up the server side works of frontend	1	Medium	Deepa
Sprint-3	Watson Assistant	USN-2	Creating chatbot for expense tracking and for clarifying user's query	1	Medium	Jeyadharshini
Sprint-3	SendGrid	UNS-3	Using SendGrid to send mail to the user about their expenses	1	Low	Swetha
Sprint-3		UNS-4	Integrating both frontend and backend	2	High	Kavibharathi
Sprint-4	Docker	UNS-1	Creating image of website using docker	2	High	Deepa
Sprint-4	Cloud Registry	UNS-2	Upload docker image to IBM Cloud registry	2	High	Jeyadharshini
Sprint-4	Kubernetes	UNS-3	Create container using the docker image and hosting the site	2	High	Swetha
Sprint-4	Exposing	UNS-4	Exposing IP/ports for the site	2	High	kavibharathi

#### 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	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
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.

	OCT						NOV						NOV						NOV						
	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Sprints	PETA Sprint 1						PETA Sprint 2						PETA Sprint 3						PETA Sprint 4						
> <a href="#">PETA-5 Registration</a>																									
> <a href="#">PETA-6 Login</a>																									
> <a href="#">PETA-7 Dashboard</a>																									
> <a href="#">PETA-11 Workspace</a>																									
> <a href="#">PETA-12 Charts</a>																									
> <a href="#">PETA-13 Connecting to IBM DB22</a>																									
> <a href="#">PETA-18 Watson Assistant</a>																									
> <a href="#">PETA-19 SendGrid</a>																									
> <a href="#">PETA-25 Docker</a>																									
> <a href="#">PETA-26 Cloud Registry</a>																									
> <a href="#">PETA-27 Kubernetes</a>																									
> <a href="#">PETA-28 Exposing</a>																									