

Project Planning Phase

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

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|---------------|--------------------------------------|
| Date | 18 October 2022 |
| Team ID | PNT2022TMID25536 |
| Project Name | Personal Expense Tracker Application |
| Maximum Marks | 8 Marks |

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

| 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 | Shanavaas |
| | | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 1 | High | Ragavan |
| | Login | USN-3 | As a user, I can log into the application by entering email & password | 1 | Low | Arivin |
| | Dashboard | USN-4 | Logging in takes to the dashboard for the logged user. | 2 | Medium | Garki |
| Bug fixes, routine checks and improvisation by everyone in the team *Intended bugs only | | | | | | |
| Sprint-2 | Workspace | USN-1 | Workspace for personal expense tracking | 2 | High | Ragavan |
| | Charts | USN-2 | Creating various graphs and statistics of customer's data | 1 | Medium | Arivin |
| | Connecting to IBM DB2 | USN-3 | Linking database with dashboard | 2 | High | Garki |
| | | USN-4 | Making dashboard interactive with JS | 2 | High | Shanavaas |

| 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 | Arivin |
| | Watson Assistant | USN-2 | Creating Chatbot for expense tracking and for clarifying user's query | 1 | Medium | Garki |
| | SendGrid | USN-3 | Using SendGrid to send mail to the user about their expenses | 1 | Low | Shanavaas |
| | | USN-4 | Integrating both frontend and backend | 2 | Medium | Ragavan |

| | | | | | | |
|----------|----------------|-------|--|---|------|-----------|
| Sprint-4 | Docker | USN-1 | Creating image of website using docker/ | 2 | High | Garki |
| | Cloud Registry | USN-2 | Uploading docker image to IBM Cloud registry | 2 | High | Shanavaas |
| | Kubernetes | USN-3 | Create container using the docker image and hosting the site | 2 | High | Ragavan |
| | Exposing | USN-4 | Exposing IP/Ports for the site | 2 | High | Arivin |

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 | 23 Oct 2022 | 28 Oct 2022 | 20 | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 30 Oct 2022 | 04 Nov 2022 | 20 | 05 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 06 Nov 2022 | 11 Nov 2022 | 20 | 12 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 13 Nov 2022 | 18 Nov 2022 | 20 | 19 Nov 2022 |

Velocity:

Imagine we have a 6-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.



Reference:

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>