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

| Date | 18 October 2022 |
|---|---|
| Team ID | PNT2022TMID32597 |
| Project Name | Personal Expense Tracker |
| 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 | Balasaravanan Deepak Guhan Muthuraaj |
| Sprint-1 | | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 1 | High | Balasaravanan Deepak Guhan Muthuraaj |
| Sprint-1 | Login | USN-3 | As a user, I can log into the application by entering email & password | 1 | High | Balasaravanan Deepak Guhan Muthuraaj |
| Sprint-1 | Dashboard | USN-4 | Logging in takes to the dashboard for the logged user | 2 | High | Balasaravanan Deepak Guhan Muthuraaj |
| Sprint-2 | Workspace | USN-1 | Workspace for personal expense tarcking | 2 | High | Balasaravanan Deepak Guhan Muthuraaj |
| Sprint-2 | Charts | USN-2 | Creating various graphs and statistics of customer's data | 1 | Medium | Balasaravanan Guhan |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| Sprint-2 | Connecting to IBM DB22 | USN-3 | Linking database with dashboard | 2 | High | Balasaravanan Deepak Guhan Muthuraaj |
| Sprint-2 | | UNS-4 | Making dashboard interactive with JS | 2 | High | Balasaravanan Deepak Guhan Muthuraaj |
| Sprint-3 | | UNS-1 | Wrapping up the server side works of frontend | 1 | Medium | Balasaravanan Deepak Guhan Muthuraaj |
| Sprint-3 | Waston Assistant | UNS-2 | Creating Chatbox for expense tracking and for clarifying user's query | 1 | Medium | Balasaravanan Deepak Guhan Muthuraaj |
| Sprint-3 | SendGrid | UNS-3 | Using sendGrid to send mail to the user about their expenses | 1 | Low | Balasaravanan Deepak Guhan Muthuraaj |
| Sprint-3 | | UNS-4 | Integrating both frontend and backend | 2 | High | Balasaravanan Deepak Guhan Muthuraaj |
| Sprint-4 | Docker | UNS-1 | Creating image of website using docker | 2 | High | Balasaravanan Deepak Guhan Muthuraaj |
| Sprint-4 | Cloud Registry | UNS-2 | Upload docker image to IBM Cloud registry | 2 | High | Balasaravanan Deepak Guhan Muthuraaj |
| Sprint-4 | Kubernetes | UNS-3 | Create container using the docker image and hosting the site | 2 | High | Balasaravanan Deepak Guhan Muthuraaj |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| Sprint-4 | Exposing | UNS-4 | Exposing IP/ports for the site | 2 | High | Balasaravanan Deepak Guhan Muthuraaj |

**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-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)

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