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

| Date | 18 October 2022 |
|---|---|
| Team ID | PNT2022TMID04427 |
| 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 | UI design | USN-1 | As a user, I can experience good user interaction and user experience in the application | 1 | Medium | Raguram G P |
| Sprint-1 | Registration | USN-2 | As a user, I can register for the application by entering my email, password, and confirming my password. | 2 | High | Oviya D |
| Sprint-1 | Backend - flask | USN-3 | As a user, I can access the website by login | 2 | High | Raveen A |
| Sprint-1 | | USN-4 | As a user, I will receive confirmation email once I have registered for the application | 1 | High | Oviya D |
| Sprint-1 | | USN-5 | As a user, I can register for the application through google | 2 | Low | Oviya D |
| Sprint-1 | | USN-6 | As a user, I can register for the application through Gmail | 2 | Medium | Oviya D |
| Sprint-1 | Login | USN-7 | As a user, I can log into the application by entering email & password | 1 | High | Oviya D |
| | | | **SPRINT-1 REVIEW AND SUBMISSION** | | | |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|--------|------------------------------|-------------------|-------------------|--------------|----------|--------------|
| Sprint-2 | Dashboard | USN-8 | As a user, If I Logged in correctly, I can view my dashboard and I can navigate to any pages which are in the menu bar. | 2 | High | Raguram G P |
| Sprint-2 | User Profile | USN-9 | As a user, I can view and edit my profile | 1 | Low | Sandhiya K |
| Sprint-2 | Generate Analysis Report | USN-10 | As a user, I can track my daily expense by seeing the analysis | 2 | High | Raveen A |
| Sprint-2 | Adding Expenditure spent | USN-11 | As a user, I can add my expenses to the application so that i can get my analysis. | 2 | Medium | Raguram G P |
| Sprint-2 | Database | USN-12 | As a user, my data should be stored in DB for maintaining data and make analysis | 2 | High | Raveen A |
| Sprint-2 | Cloud Storage | USN-13 | As a user, I can upload profile image and download the analysis report from application | 1 | Medium | Raveen A |
| Sprint-2 | Chatbot | USN-14 | As a user, I can communicate to clear my queries related the the working of this application | 1 | Low | Sandhiya K |
| | | | **SPRINT-2 REVIEW AND SUBMISSION** | | | |
| Sprint-3 | Sendgrid service | USN-15 | As a user, I can get notification about the range of my expenditure spent | 2 | Medium | Raguram G P |
| Sprint-3 | Docker | USN-16 | As a user, I can access the application any where and in any device | 2 | High | Raveen A |
| Sprint-3 | Kubernetes | USN-17 | As a user, I can access the application any where and in any device | 2 | Medium | Raguram G P |
| Sprint-3 | Deployment | USN-18 | As a user, I can access the application any where and in any device | 2 | High | Sandhiya K |
| Sprint-3 | Technical Support | USN-19 | As a user, I can get clarified if any queries arises | 1 | Low | Oviya D |
| | | | **SPRINT-3 REVIEW AND SUBMISSION** | | | |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| Sprint-4 | UNIT testing | USN-20 | As a user, I can access the website without any error or interruption. | 2 | Medium | Oviya D |
| Sprint-4 | Integration testing | USN-21 | As a user, the flow of the website between pages will be good. | 2 | High | Oviya D |
| Sprint-4 | System testing | USN-22 | As a user, I can access the website with good flow | 2 | Medium | Sandhiya K |
| Sprint-4 | Correctness | USN-23 | As a user, i can use this application with all kind of validation and verification | 1 | Medium | Raguram G P |
| Sprint-4 | Acceptance testing | USN-24 | As a user, i can suggest this application with friends | 2 | Low | Raveen A |
| | | | **SPRINT-4 REVIEW AND SUBMISSION** | | | |

## 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 | 9 Nov 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 20 | 11 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 | 14 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)

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

**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.

## BURNDOWN CHART