**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 05 July 2024 |
| Team ID | SWTID1721040922 |
| Project Name | WalletWatch (Personal Expense Tracker) |
| Maximum Marks | 4 Marks |

**Product Backlog, Sprint Schedule, and Estimation (2 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 | Front-end | USN-1 | User Profile:  A form for the users to create their profile by giving their name, email, password, and monthly income. Options for users to customize their dashboard – have options for light mode and dark mode, etc. | 7 | High | Maddukuri Madhuri NagaLakshmi |
|  |  | USN-2 | Expense Tracking:  A form for users to input their new expense including the date, category, description, and amount. A table or list displaying all the user's expenses. Item-wise expenses, category-wise expenses. | 7 | High | Shrinidhi N |
|  |  | USN-3 | Reports:  Income vs expenses charts, savings rate, and required advice | 6 | Medium | Rohan Singh |
| Sprint-2 | Database Architecture | USN-1 | User collection:  A collection to store user data, including fields for name, email, password, and monthly income. | 7 | High | Shrinidhi N |
|  |  | USN-2 | Expense collection:  A collection to store expense data, including fields for date, category, description, amount, and user id. | 7 | High | Rohan Singh |
|  |  | USN-3 | Savings collection:  A collection to store savings data, including fields for month, income, expense, and savings. | 6 | Medium | Maddukuri Madhuri NagaLakshmi |
| Sprint-3 | Back-end (server) | USN-1 | User Management:  Logic to authenticate users, including password hashing and validation. Logic to authorize user actions, including access control and permissions. | 7 | High | Rohan Singh |
|  |  | USN-2 | Expense Tracking:  Validation logic to ensure expense data is accurate and complete. Logic to categorize expenses based on user input or pre-defined categories. | 7 | High | Maddukuri Madhuri NagaLakshmi |
|  |  | USN-3 | Reports:  Logic to generate reports based on user input, including date range, category, and type. Logic to retrieve data from the database and format it for display in the front-end. | 6 | Medium | Shrinidhi N |
| Sprint-4 | Integration of server and DBA for the back-end application | USN-1 | API Integration:  Integration with external APIs. | 20 | High | Maddukuri Madhuri NagaLakshmi, Shrinidhi N, Rohan Singh |
| Sprint-5 | Testing of the back-end application | USN-1 | Unit Testing:  To ensure that the individual components are functioning correctly | 10 | High | Maddukuri Madhuri NagaLakshmi, Shrinidhi N |
|  |  | USN-2 | Integration Testing:  Testing logic to ensure components are working together correctly | 10 | High | Rohan Singh |

**Project Tracker, Velocity & Burndown Chart: (2 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 | 2 Days | 06 Jul 2024 | 08 Jul 2024 |  |  |
| Sprint-2 | 20 | 1 Days | 08 Jul 2024 | 09 Jul 2024 |  |  |
| Sprint-3 | 20 | 2 Days | 09 Jul 2024 | 11 Jul 2024 |  |  |
| Sprint-4 | 20 | 1 Days | 11 Jul 2024 | 12 Jul 2024 |  |  |
| Sprint-5 | 20 | 1 Day | 12 Jul 2024 | 13 Jul 2024 |  |  |

**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)



**Burndown Chart:**

A burndown chart is a graphical representation of work left to do versus time. It is often used in agile[software development](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies such as [Scrum](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/). However, burn down charts can be applied to any project containing measurable progress over time.

[**https://www.visual-paradigm.com/scrum/scrum-burndown-chart/**](https://www.visual-paradigm.com/scrum/scrum-burndown-chart/)

[**https://www.atlassian.com/agile/tutorials/burndown-charts**](https://www.atlassian.com/agile/tutorials/burndown-charts)

**Reference:**

[**https://www.atlassian.com/agile/project-management**](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/how-to-do-scrum-with-jira-software)

[**https://www.atlassian.com/agile/tutorials/epics**](https://www.atlassian.com/agile/tutorials/epics)

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[**https://www.atlassian.com/agile/tutorials/burndown-charts**](https://www.atlassian.com/agile/tutorials/burndown-charts)