**Project Planning Phase**

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

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| --- | --- |
| Date | 14 November 2022 |
| Team ID | PNT2022TMID42456 |
| Project Name | Project – Personal Expense Tracker |
| Maximum Marks | 8 Marks |

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

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| **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 , new password and confirming the same password. | 2 | High | Sneka.TL  Deekshiga.T |
|  | USN -2 | As a user , I will receive confirmation email once I have registered for the application. | 1 | Low |
| Login | USN -3 | As a user , I can log into the application by entering email and password / Google OAuth. | 2 | High | Nadhiya.R  Sandhiya.K |
| Dashboard | USN -4 | Logging in takes the user to their dashboard. | 1 | Low |
| Sprint - 2 | Workspace | USN -5 | As a user ,I will update my salary at the start of each month. | 1 | Medium | Sandhiya.R |
|  | USN -6 | As a user , I will set a limit to keep track of my expenditure. | 1 | Medium | Sneka.TL |
|  | USN -7 | Workplace for personal expense tracking | 1 | Medium | Nadhiya.R |
| Charts | USN -8 | Graphs to show weekly and everyday expenditure | 2 | High | Deekshiga.T |

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| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story**  **Number** | **User Story / Task** | **Story Points** | **Priority** | **Team**  **Members** |
| Sprint - 3 | IBM DB2 | USN -9 | Linking database with dashboard | 2 | High | Nadhiya.R |
|  | USN -10 | Making dashboard interactive with JS | 2 | High | Sandhiya.K |
| Watson Assistant | USN -11 | Embedding Chatbot to clarify user’s queries. | 1 | Low | Deekshiga.T |
| SendGrid | USN -12 | Using SendGrid to send mail to the user. (To alert or remind) | 1 | Medium | Sneka.TL |
| Sprint - 4 | Integration | USN -13 | Integrating frontend and backend. | 2 | High | Deekshiga.T |
| Docker | USN -14 | Creating Docker image of web app. | 2 | High | Sneka.TL |
| Cloud Registry | USN -15 | Uploading docker image to IBM cloud registry. | 2 | High | Sandhiya.k |
| Kubernetes | USN -16 | Creating container using docker and hosting the webapp. | 2 | High | Deekshiga.T |
| Exposing Deployment | USN -17 | Exposing IP/Ports for the site. | 1 | Medium | Nadhiya.R |

**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

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| --- | --- | --- | --- | --- | --- | --- |
| **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 | 2 Nov 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 15 | 7 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 | 15 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 20 | 18 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)



**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](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.

