**Project Planning Phase**

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

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| --- | --- |
| Date | 28 October 2022 |
| Team ID | PNT2022TMID43155 |
| Project Name | Project – Plasma Donor 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 | Registration | USN-1 | A User can register and create the user account | 5 | High | Praveen Kumar, Dinesh |
| Sprint-1 | login | USN-2 | A User can sign-in to the application by entering the registered email id and password | 5 | High | Kumaresan,deverajan |
| Sprint-1 | Admin Register | USN-3 | An admin can register through the admin registry | 5 | High | Praveen Kumar, Dinesh |
| Sprint-1 | Register Admin Via Script | USN-4 | Creating an Admin Account using a python script. As for security reasons we should implement a separate python scrip | 5 | High | Devarajan,kumaresan |
| Sprint-2 | Implementing Authentication System | USN-5 | creating an authentication system for both admin and users using flask application | 6 | High | Kumaresan,devarajan |
| Sprint-2 | Creating Tables | USN-6 | Creating Db2 account and creating  the tables in DB2 in IBM cloud db2 | 4 | High | Devarajan,kumaresan |
| Sprint-2 | Creating SSL certificate and integrating with  python code | USN-7 | Creating the SSL certificate to connect db2 via python code | 4 | High | Devarajan,kumaresan |
| Sprint-2 | Creating  dashboard | USN-8 | Admin and Donor can interact with our application. | 6 | High | Praveen Kumar, Dinesh |
| Sprint-3 | Plasma request and donor acknowledge  feature | USN-9 | Admin can create plasma requests which will be shown in the user portal | 5 | High | Kumaresan,devarajan |
| Sprint-3 | Creating dashboard for admin | USN-10 | Admin dashboard, admin can view the total request has been requested for plasma by the recipient/user. | 5 | High | Devarajan,kumaresan |
| Sprint-3 | Integrating the  Watson chat bot | USN-11 | Users can use the chatbot for basic clarification using the chatbot | 5 | High | Praveen Kumar, Dinesh |
| Sprint-3 | Integration with SendGrid | USN-12 | The source/verification mail for both user(donor and recipient) | 5 | High | Praveen Kumar, Dinesh |
| Sprint-4 | Docker installation | USN-13 | Installing Docker CLI | 6 | High | Kumaresan, devarajan |
| Sprint-4 | Creating docker image | USN-14 | Setting up the docker environment and creating the docker image file | 6 | High | Devarajan, Kumaresan |
| Sprint-4 | Kubernetes | USN-15 | creating pods in Kubernetes and uploading it in IBM cloud | 4 | High | Devarajan, Kumaresan |
| Sprint-4 | End-to-End Testing | USN-16 | Implementing End-to-End testing | 4 | High | Kumaresan, devarajan |

**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 | 24 Oct 2022 | 20 | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 31 Nov 2022 | 20 | 05 Oct 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 07 Nov 2022 | 20 | 12 Oct 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 14 Nov 2022 | 20 | 19 Oct 2022 |
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**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.

[**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)