

Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID25781
Project Name	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	Home Page	USN-1	I can sign up for the application as a new user. I'm able to log into the application as a registered user.	1	Medium	Aswathy vijayakumar
Sprint-1	Registration Page	USN-2	I will be taken to a registration page as a new user where I must provide information such as my name, phone number, email address, home address, blood type, new password, and confirm password.	2	High	Irene Jerusha
Sprint-1	login page	USN-3	Already registered users (or) old users can login through this page.	1	Medium	Nuvvuru Divya
Sprint-1	Requirement Page	USN-4	The user must decide if they are intending to donate plasma or need to obtain plasma..	1	Low	Pavithra.M
Sprint-1	stats page	USN-5	Donors can give plasma according to the number of units that are available for a specific blood type. Requests can be made by patients who require plasma to donors.	2	Medium	Aswathy vijayakumar
Sprint-1	Request page	USN-6	A patient can enter their personal and contact details and send requests to donors.Donors can contact the patients or recipients.	2	High	Irene Jerusha
Sprint-1	Success page	USN-7	After email notifications is sent successfully then the control navigates to success page.	1	Medium	Nuvvuru Divya

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Creating IBM DB2 database	USN-8	Database is the one where we store the information of both the Donor and the user.Also we need to store the availability of Plasma Donors.	2	High	Irene Jerusha
Sprint-2	Chatbot	USN-9	Chatbot is available in the homepage.Whenever a donor or user is facing an issue they can solve it by using chatbot.It interacts with them and resolves the problem. It uses IBM Watson Assistant.	2	Medium	Nuvvuru Divya
Sprint-2	Inserting Sendgrid function	USN-10	Sendgrid is applied to send email notifications to donors about the requirement of plasma along with the contact details of the recipient..	2	High	Pavithra.M
Sprint-3	Applying flask technology	USN-11	Backend handlings such as client requests,server responses,database information management are controlled by using Python Flask.	1	High	Irene Jerusha
Sprint-3	Integration	USN-12	Developing connectivity between frontend and backend of the application.	2	Medium	Nuvvuru Divya
Sprint-4	deployment using docker	USN-13	Deploying and testing all the frontend,backend and databases in single go using docker.	1	High	Nuvvuru Divya
Sprint-4	Application Orchestration	USN-14	Handling the application at heavy traffic and handling loads of data using kubernetes.	2	Medium	Nuvvuru Divya

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	13 Days	27 Oct 2022	09 Nov 2022	20	09 Nov 2022
Sprint-2	20	8 Days	03 Nov 2022	11 Nov 2022	20	11 Nov 2022
Sprint-3	20	8 Days	07 Nov 2022	15 Nov 2022	20	15 Nov 2022
Sprint-4	20	8 Days	11 Nov 2022	19 Nov 2022	20	19 Nov 2022

Backlog

IJNDAP

Epic

Insights

▼ Sprint 1-UI Designs 27 Oct – 9 Nov (7 issues)

631

Complete sprint

...

To complete the front end webpage designs

CAD-1 Home Page

1

DONE

AV

CAD-2 Register Page

2

IN PROGRESS

IJ

CAD-3 Login page

1

IN PROGRESS

ND

CAD-4 Requirement Page

1

TO DO

P

CAD-5 Stats Page

2

TO DO

AV

CAD-6 Request Page

2

TO DO

IJ

CAD-7 Success Page

1

TO DO

ND

+ Create issue

Jira

Your work

Projects

Filters

Dashboards

People

Apps

Create

AV

IBM-PlasmaDonorApp...

Software project

PLANNING

Roadmap

Backlog

Board

DEVELOPMENT

Code

Project pages

Add shortcut

Project settings

Projects / IBM-PlasmaDonorApplication

Backlog

AVNDIJP

Epic

Insights

▼ Sprint 2- IBM DB2 & other serv Add dates (3 issues)

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Start sprint

...

Setting up the Backend services such as IBM DB2, Chatbot

CAD-8 Creating database DB2

TO DO

IJ

CAD-9 Creating chatbot

TO DO

ND

CAD-10 Creating Email alert using Send Grid

TO DO

P

+ Create issue

Jira

Your work ▾

Projects ▾

Filters ▾

Dashboards ▾

People ▾

Apps ▾

Create

Q Search

?

⚙

AV

IBM-PlasmaDonorApp...

Software project

PLANNING

Roadmap

Backlog

Board

DEVELOPMENT

Code

Project pages

Add shortcut

Project settings

Projects / IBM-PlasmaDonorApplication

Backlog

...

Q

AVNDIJP

+

Epic ▾

Insights

CAD-10 Creating Email alert using Send Grid

TO DO ▾

+ Create issue

▼ Sprint 3- Integration

Add dates (2 issues)

000

Start sprint

...

Integrating front end with backend using Python Flask

CAD-11 Creating a flask program

TO DO ▾

IJ

CAD-12 Integrating

TO DO ▾

ND

+ Create issue

Jira

Your work ▾

Projects ▾

Filters ▾

Dashboards ▾

People ▾

Apps ▾

Create

Q Search

?

⚙

AV

IBM-PlasmaDonorApp...

Software project

PLANNING

Roadmap

Backlog

Board

DEVELOPMENT

Code

Project pages

Add shortcut

Project settings

Projects / IBM-PlasmaDonorApplication

Backlog

...

Q

AVNDIJP

+

Epic ▾

Insights

▼ Sprint 4-Deployment

Add dates (2 issues)

000

Start sprint

...

Testing & Deploying the web application and solving bugs if any found.

CAD-13 Deployment using Docker

TO DO ▾

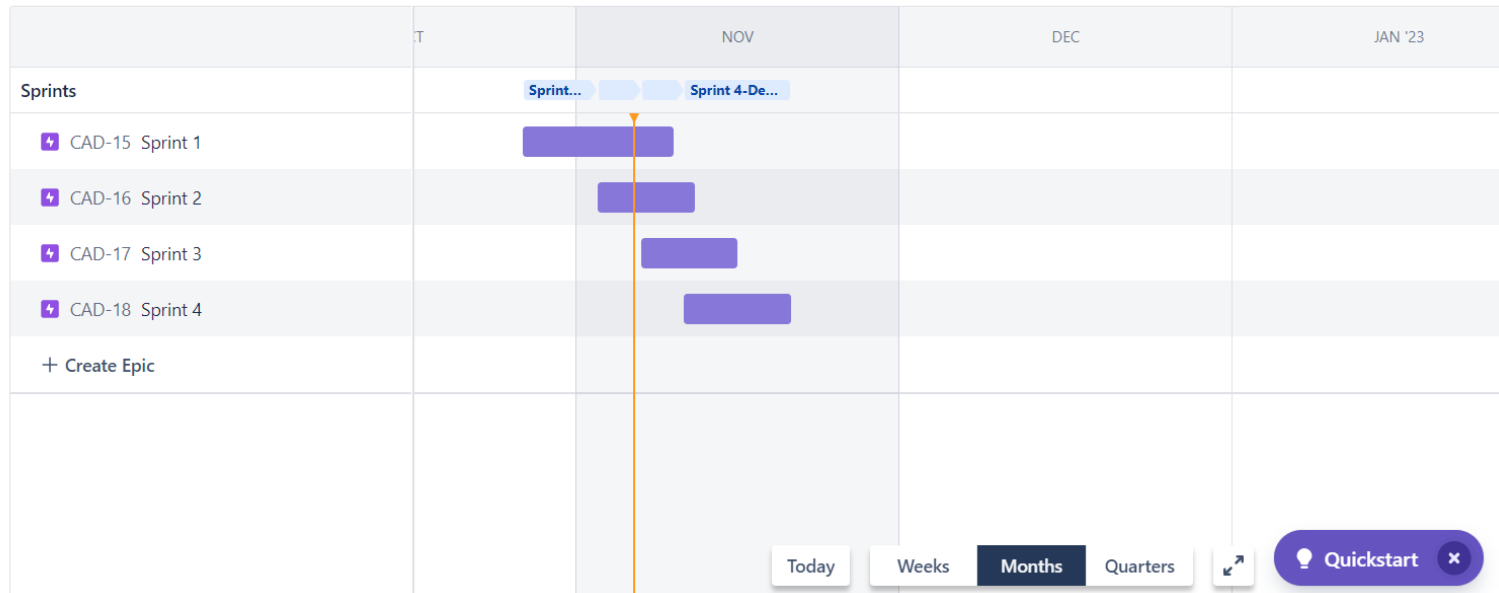
ND

CAD-14 Orchestration using Kubernetes

TO DO ▾

ND

+ Create issue



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)

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

Burndown Chart:

A burndown 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.