Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID20247
Project Name	Project - IOT Based Safety Gadget for Child Safety Monitoring&Notification
Maximum Marks	8 Marks

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

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	As a user, I can register for the application by entering my email, and password, and confirming my password.	4	High	SINDHUJA
Sprint-1	Confirmation Email	USN-2	As a user, I will receive a confirmation email once I have registered for the application	4	High	SHREE SHARANYA
Sprint-1	Authentication	USN-3	As a user, I can register for the application through Gmail and mobile app.	4	Medium	SHIVA
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email & password	4	High	SHANMUKI
Sprint-1	Dashboard	USN-5	As a user, I need to be able to view the functions that I can perform	4	High	SUDHARSAN

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Notification	USN-1	As a user, I should be able to notify my parent and guardian in emergency situations	10	High	SINDHUJA
Sprint-2	Store data	USN-1	As a user, I need to continuously store my location data into the database.	10	Medium	SINDHUJA
Sprint-3	Communication	USN-1,2	As a user, I should be able to communicate with my parents	6	Low	SINDHUJA,SHREE SHARANYA
Sprint-3	IOT Device – Watson communication	USN-1,3	The data from IOT device should reach IBM Cloud	7	Medium	SINDHUJA,SHIVA
Sprint-3	Node RED-Cloudant DB communication	USN-1,4	The data stored in IBM Cloud should be properly integrated with Cloudant DB	7	High	SINDHUJA,SHANMUKI
Sprint-4	User – WebUI interface	USN-1,5	The Web UI should get inputs from the user	10	High	SINDHUJA,SUDHARSAN
Sprint-4	Geofencing	USN-1,2,5	The geofencing of the child should be done based on the geographical coordinates	10	High	SINDHUJA,SHREE SHARANYA,SUDHARSAN

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	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022

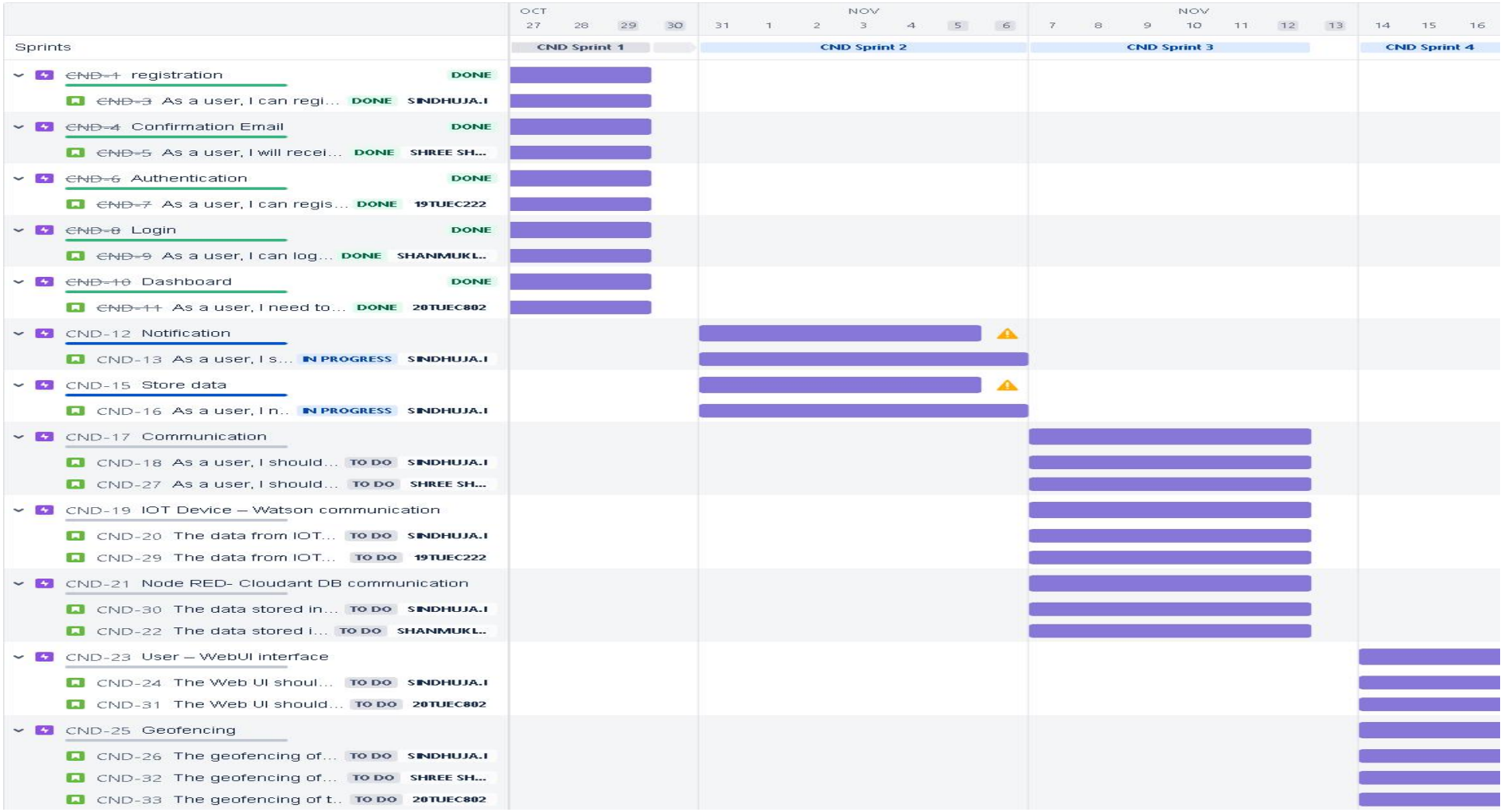
Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

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)

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

SPRINTS	AV
SPRINT-1	20/6=3.33
SPRINT-2	20/6=3.33
SPRINT-3	20/6=3.33
SPRINT-4	20/6=3.33

MILESTONE:


OCT
27 28 29 30
NOV
31 1 2 3 4 5 6
NOV
7 8 9 10 11 12 13
14 15 16
Sprints
CND Sprint 1
CND Sprint 2
CND Sprint 3
CND Sprint 4
END-1 registration DONE
END-3 As a user, I can regi... DONE SINDHUJA.I
END-4 Confirmation Email DONE
END-5 As a user, I will recei... DONE SHREE SH...
END-6 Authentication DONE
END-7 As a user, I can regis... DONE 19TUEC222
END-8 Login DONE
END-9 As a user, I can log... DONE SHANMUKL..
END-10 Dashboard DONE
END-11 As a user, I need to... DONE 20TUEC802
CND-12 Notification
CND-13 As a user, I s... IN PROGRESS SINDHUJA.I
CND-15 Store data
CND-16 As a user, I n.. IN PROGRESS SINDHUJA.I
CND-17 Communication
CND-18 As a user, I should... TO DO SINDHUJA.I
CND-27 As a user, I should... TO DO SHREE SH...
CND-19 IOT Device – Watson communication
CND-20 The data from IOT... TO DO SINDHUJA.I
CND-29 The data from IOT... TO DO 19TUEC222
CND-21 Node RED- Cloudant DB communication
CND-30 The data stored in... TO DO SINDHUJA.I
CND-22 The data stored i... TO DO SHANMUKL..
CND-23 User – WebUI interface
CND-24 The Web UI shoul... TO DO SINDHUJA.I
CND-31 The Web UI should... TO DO 20TUEC802
CND-25 Geofencing
CND-26 The geofencing of... TO DO SINDHUJA.I
CND-32 The geofencing of... TO DO SHREE SH...
CND-33 The geofencing of t.. TO DO 20TUEC802

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.