

Project Planning Phase

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

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| Date | 28 October 2022 |
| Team ID | PNT2022TMID04514 |
| Project Name | Project - Analytics of Hospital Health care data |

Product Backlog, Sprint Schedule, and Estimation

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---------------|--------------------------------------|--------------------------|---|---------------------|-----------------|--|
| Sprint-1 | Data Collection | USN-1 | The User needs a complete data about the patients admitted in the hospital and a dataset should be prepared. | 2 | Medium | Shanmuga Priya S, Ushanandhini R |
| Sprint-1 | Data Exploration | USN- 2 | As a user, I need nicely visualized dashboard of number of beds occupied and number of free beds in hospital. | 4 | High | Sudharshini B,Preethika S, Shanmuga Priya S |
| Sprint-2 | Track of patient visit of Hospital | USN-3 | Tracking a patient Health care over years of visit and Screening of data they have in hospital. | 2 | Medium | Ushanandhini R,Sudharshini B |

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|-----------|-----------------------------------|---------|---|---|--------|---|
| Sprint -2 | Dashboard | USN - 4 | As a user, I want the interactive dashboard to analyse the data. Have the data in terms of Graph. | 4 | High | Preethika S, Sudharshini B, Ushanandhini R |
| Sprint-3 | Detailed EHR's of patient | USN-5 | Provided greater details in the EHR's of individual patient with clear idea of what to do. | 2 | Medium | Shanmuga Priya S, Preethika S |
| Sprint- 3 | Story Creation | USN-6 | As a user, I need the story animation of the data set with insights | 4 | High | Sudharshini B, Ushanandhini R |
| Sprint-4 | Predict LOS | USN-7 | As a user, I want the flawless system to predict the length of stay of the patients | 4 | High | Shanmuga Priya S, Ushanandhini R, Preethika S |
| Sprint-4 | Using ML algorithm for Prediction | USN-8 | As a user, I need prior knowledge of LOS can aid in logistics such as room and bed allocation planning. | 4 | High | Preethika S, Sudharshini B, Shanmuga Priya S, |

Project Tracker, Velocity & Burndown Chart:

| 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-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 |
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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)

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

Burn Down 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.

| SPRINT | DATE | ESTIMATED EFFORT | ACTUAL EFFORT |
|----------|-----------|------------------|---------------|
| SPRINT-1 | 24-OCT-22 | 20 | 20 |
| | 25-OCT-22 | 19 | 20 |
| | 26-OCT-22 | 18 | 19 |
| | 27-OCT-22 | 17 | 19 |
| | 28-OCT-22 | 17 | 18 |
| | 29-OCT-22 | 16 | 17 |
| | 30-OCT-22 | 15 | 15 |
| SPRINT-2 | 31-OCT-22 | 14 | 13 |
| | 01-NOV-22 | 13 | 12 |
| | 02-NOV-22 | 12 | 11 |
| | 03-NOV-22 | 11 | 11 |
| | 04-NOV-22 | 11 | 11 |
| | 05-NOV-22 | 10 | 9 |
| | 06-NOV-22 | 9 | 8 |
| | 07-NOV-22 | 8 | 7 |

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|----------|-----------|---|---|
| SPRINT-3 | 08-NOV-22 | 7 | 6 |
| | 09-NOV-22 | 6 | 6 |
| | 10-NOV-22 | 5 | 5 |
| | 11-NOV-22 | 5 | 5 |
| | 12-NOV-22 | 5 | 5 |
| | 13-NOV-22 | 4 | 4 |
| SPRINT-4 | 14-NOV-22 | 4 | 4 |
| | 15-NOV-22 | 3 | 3 |
| | 16-NOV-22 | 2 | 2 |
| | 17-NOV-22 | 2 | 2 |
| | 18-NOV-22 | 1 | 1 |
| | 19-NOV-22 | 1 | 1 |

Progress Burdown Chart

