

# Project Planning Phase

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

Date	21 October 2023
NM ID	B910454B661E3859B93483FA1A091BCD
Project Name	Analyzing The Performance & Efficiency Of The Radisson Hotels Using Data Visualization Techniques Using IBM COGNOS
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	Reservation System	US001	As a guest, I want to make a reservation online.	5	High	Sadhana P

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
	Reservation System	US002	As a hotel staff member, I want to view reservations.	3	High	Yamuna P
Sprint 2	Check-In/Check-Out	US003	As a guest, I want to check in at the hotel.	5	High	Swathy Priya M

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
	Check-In/Check-Out	US004	As a hotel staff member, I want to check in a guest.	3	High	Varsha K
Sprint 3	Check-In/Check-Out	US005	As a guest, I want to check out of the hotel.	5	High	Swathy Priya A
	Billing	US006	As a hotel staff member, I want to generate a bill.	3	High	Sadhana P

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint 4	Room Service	US007	As a guest, I want to order room service.	3	Medium	Varsha K
	Reporting	US008	As a hotel staff member, I want to view occupancy data.	5	Medium	Yamuna P

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

Sprint	Total Story Points	Duration (in weeks)	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
1	20	2	1 Sep 2023	14 Sep 2023	20	14 Sep 2023
2	20	2	14 Sep 2023	28 Sep 2023	20	28 Sep 2023
3	20	2	28 Sep 2023	10 Oct 2023	20	10 Oct 2023
4	20	2	10 Oct 2023	14 Oct 2023	20	14 Oct 2023
5	20	1	14 Oct 2023	20 Oct 2023	20	20 Oct 2023

**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)

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

**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.

