

## Project Design Phase

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

Date	17 November 2023
Team ID	SI-GuidedProject-609307-1697997262
Project Name	Time Series Analysis For Bitcoin Price Using Prophet
Maximum Marks	8 Marks

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

Use the below template to create product backlog and sprint schedule

User Type	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, password, and confirming my password.	2	High	Vivek
Sprint -1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Rachit
Sprint -2		USN-3	As a user, I can register for the Website through Gmail	2	Medium	Rachit
Sprint -2	Login	USN-4	As a user, I can log into the application by entering email & password	2	High	Nihal
Sprint -2	Dashboard	USN-5	As a user, I should be able to see a dashboard after login	2	High	Vivek
Sprint -3	Prediction	USN-6	As a user, I should be able to predict the price by selecting the date and getting output	3	High	Anudeep
Sprint -4	Security	USN-7	As a user, I want to run it securely	2	Medium	Nihal
Sprint- 4	Deployment	USN-8	I want the website to Publicly visible and able to run	3	High	Anudeep

**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 2023	29 Oct 2023	20	13 Oct 2022
Sprint -2	20	6 Days	31 Oct 2023	05 Nov 2023		
Sprint -3	20	6 Days	07 Nov 2023	12 Nov 2023		
Sprint -4	20	6 Days	14 Nov 2023	22 Nov 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)

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