# Project Planning Phase

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

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|---|---|
| **Date** | **15 NOVEMBER 2022** |
| **Team ID** | **PNT2022TMID10858** |
| **Project Name** | **CrudeOilPricePrediction** |

**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 | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | 10 | High | GIRI PRASATH S |
| Sprint-1 | | USN-2 | As a user, I will receive confirmation emailonce I have registered for the application | 10 | High | JEEVANANTHAM V |
| Sprint-1 | Login | USN-3 | As a user, I can log into the application by entering email &password. | 15 | High | AMUTHAN M |
| Sprint-2 | Input Necessary Details | USN-4 | As a user, I can give Input Details toPredict Likeliness of crude oil | 15 | High | GIRI PRASATH S |
| Sprint-2 | Data Pre-processing | USN-5 | Transform raw data into suitableformat for prediction. | 15 | High | JEEVANANTHAM V |
| Sprint-3 | Prediction of Crude Oil Price | USN-6 | As a user, I can predict Crude oil usingmachine learning model. | 20 | High | DAYALAN V A |
| Sprint-3 | | USN-7 | As a user, I can get accurate prediction ofcrude oil | 5 | Medium | AMUTHAN M |
| Sprint-4 | Review | USN-8 | As a user, I can give feedback of theapplication. | 20 | High | HARIHARAN B |

**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 | 20 Oct 2022 | 25 Oct 2022 | 20 | 25 Oct 2022 |
| Sprint-2 | 20 | 7 Days | 26 Oct 2022 | 01 Nov 2022 | 19 | 01 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 02 Nov 2022 | 07 Nov 2022 | 20 | 07 Nov 2022 |
| Sprint-4 | 20 | 7 Days | 09 Nov 2022 | 15 Nov 2022 | 19 | 15 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)**

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

## Burndown Chart: