

## Initial Project Planning Template

Date	05 June 2024
Team ID	739975
Project Name	To Predict Consumer Price Index
Maximum Marks	4 Marks

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

Use the below template to create a product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members	Sprint Start Date	Sprint End Date (Planned)
Sprint-1	Data Collection	USN-1	As a data scientist, I can collect historical CPI data for data for food items, pulses, vegetables, fruits, milk products, meat, fish, snacks, sweets, beverages, and housing from reliable sources	3	High	3	06/06/2024	12/06/2024
Sprint-1	Data preprocessing	USN-2	As a data engineer, I can preprocess the collected data by cleaning it, handling missing values, and removing outliers to ensure data quality	3	High	2	06/06/2024	12/06/2024
Sprint-1	Feature Engineer	USN-3	As a data scientist, I can perform feature engineering to create new features that enhance the predictive power of the model	2	Medium	1	06/06/2024	12/06/2024
Sprint-1	Model Selection	USN-4	As a user, I can select the proper model	5	High	4	13/06/2024	16/06/2024
Sprint-1	Model Evaluation	USN-5	As a data scientist, I can evaluate the performance of the models using metrics like MAE and RMSE to identify the most accuracy model	2	High	2	13/06/2024	16/06/2024

Sprint-2	Hyperparameter Tuning	USN-6	As a machine learning engineer, I can perform hyperparameter tuning to optimize the model's performance	3	Medium	3	17/06/2024	20/06/2024
Sprint-2	Model Deployment	USN-7	As a software engineer, I can deploy the selected model using a web framework (e.g., Flask) to provide a user-friendly interface for predictions	4	High	2	17/06/2024	20/06/2024
Sprint-2	Visualization	USN-8	As a data analyst, I can create visualization to display the CPI predictions and their trends for easy interpretation by stakeholders	2	Medium	3	20/06/2024	22/06/2024
Sprint-2	Documentation	USN-9	As a technical writer, I can create comprehensive documentation for the data collection process, model implementation, and user interface to assist future users and developers	1	Medium	2	20/06/2024	22/06/2024