Project Planning Phase

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

Date	01 November 2023
Team ID	Team-593041
Project Name	Time Series Analysis for Bitcoin Price Prediction Using Prophet
Maximum Marks	8 Marks

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

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1,2	Data Acquisition and Preprocessing	USN-1	As a Data Scientist, I want to access reliable historical Bitcoin price data, so I can analyze and predict trends effectively.	1	High	Sarvepalli Megha Suhanth
Sprint-3,4	Model Development and Training	USN-2	As a Machine Learning Engineer, I want to create a baseline fbProphet model for Bitcoin price prediction, so I can establish a foundation for further optimization.	2	High	Vishruth Reddy
Sprint-5,6	Bitcoin Price Prediction and Visualization	USN-3	As a Product Owner, I want to visualize model predictions against actual Bitcoin prices, so I can interpret the results and make informed decisions.	3	High	Anvesh Reddy, Sai Pranav
Sprint-7,8	Performance Evaluation and Model Refinement	USN-4	As a quality assurance specialist, I want to test the model's performance rigorously and evaluate its effectiveness for Bitcoin price prediction.	5	High	Sarvepalli Megha Suhanth, Vishruth Reddy
Sprint -9,10	Front end Development	USN-5	As a Front-End Developer, I want to implement interactive charts on the user interface, so users can visualize both predicted and actual price dynamically.	5	High	Vishruth Reddy

Sprint-11,12	Deployment and Application of the Time Series Forecasting Model	USN-6	As a DevOps Engineer, I want to select an appropriate cloud service provider and set up infrastructure, so the application and model can be hosted securely and efficiently.	6	High	Anvesh Reddy, Sai Pranav, Megha Suhanth
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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-1,2	8	1 Day	01 Nov 2023	01 Nov 2023	9	01 Nov 2023
Sprint-3,4	8	1 Day	02 Nov 2023	02 Nov 2023	8	02 Nov 2023
Sprint-5,6	8	3 Days	03 Nov 2023	05 Nov 2023	10	05 Nov 2023
Sprint-7,8,9	12	2 Days	05 Nov 2023	06 Nov 2023	11	06 Nov 2023
Sprint-10,11,12	12	2 Days	06 Nov 2023	08 Nov 2023	5	08 Nov 2023

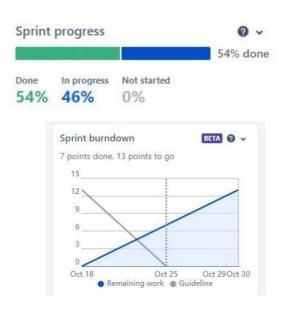
Velocity:

The team velocity of the 09-day sprint duration is:

Velocity = (9+8+10+11+5) / 5 = 43 / 5 = 8.6

Average Velocity = Sprint duration/velocity = 9/8.6 = 1.04

<u>Burndown Chart:</u> 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.



Teammates:

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Your teammate

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People



Megha Suhanth



Vangala Vishruth R...

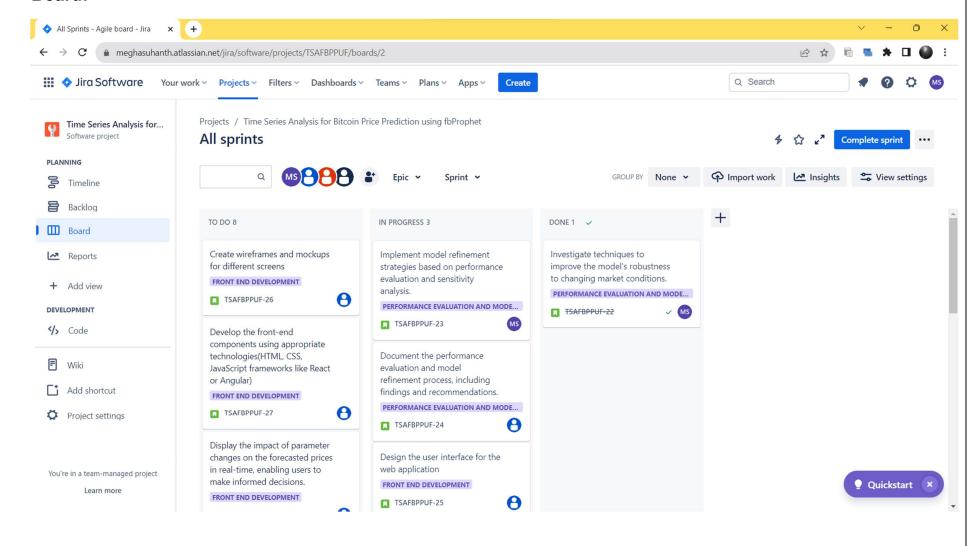


Kannepalli Venkata...

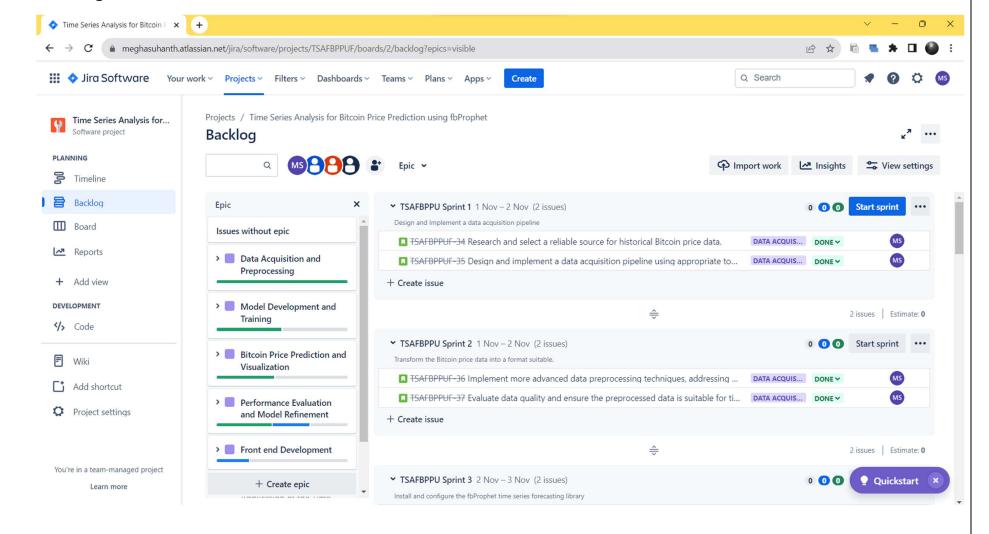


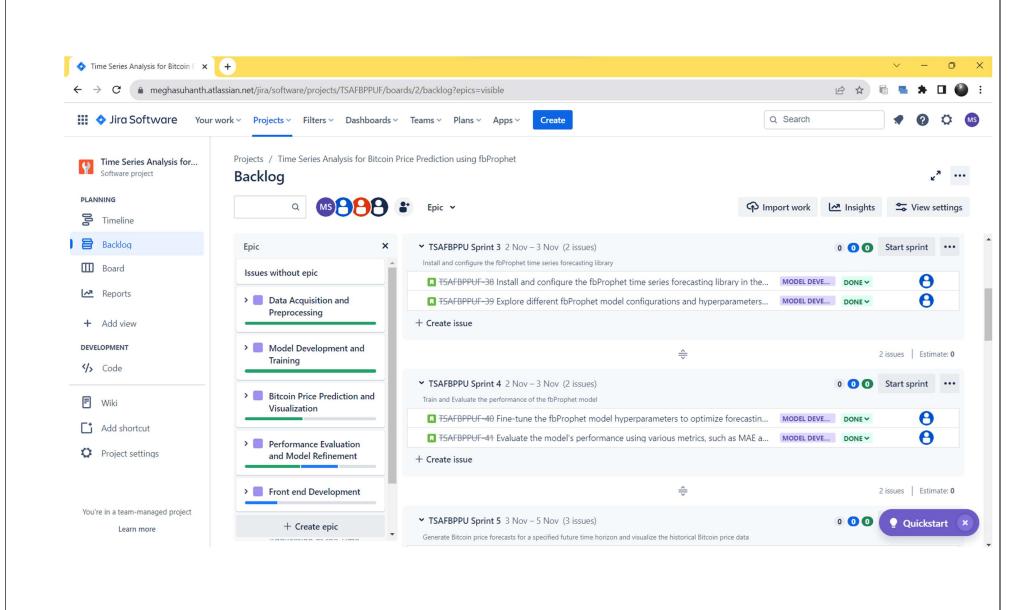
Sai Anvesh Reddy ...

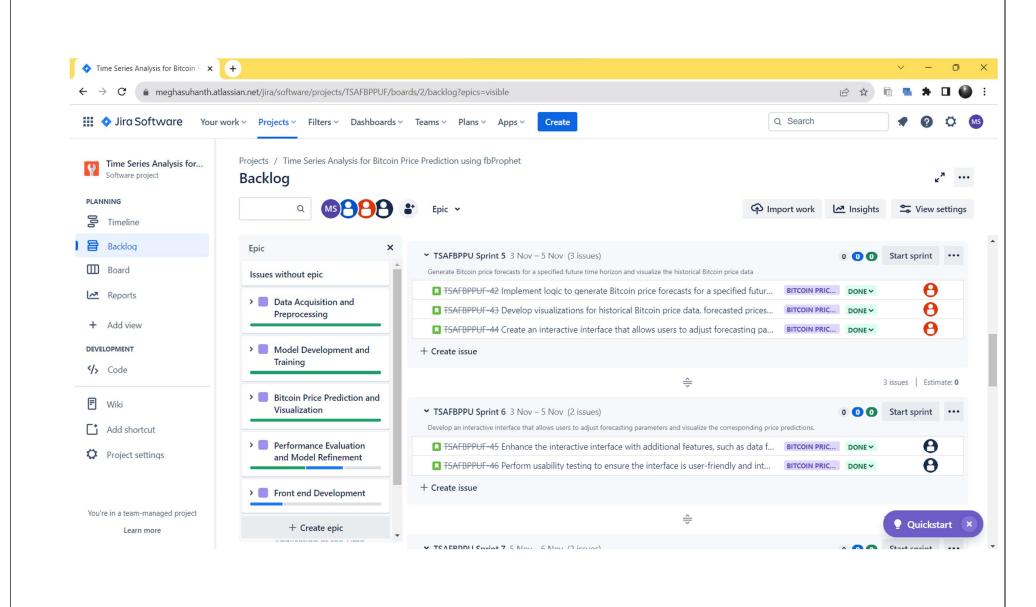
Board:

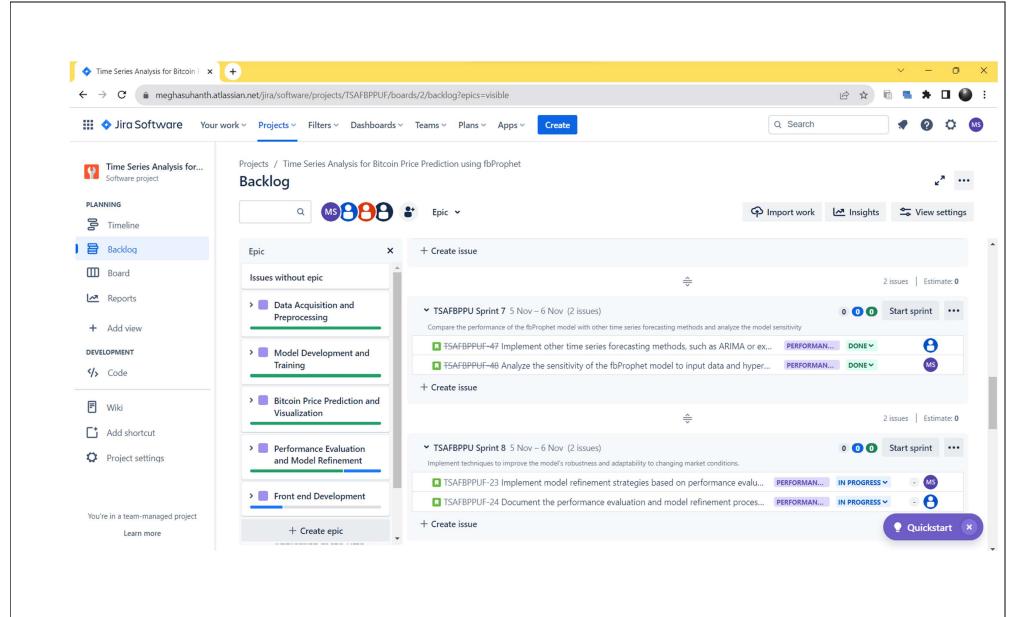


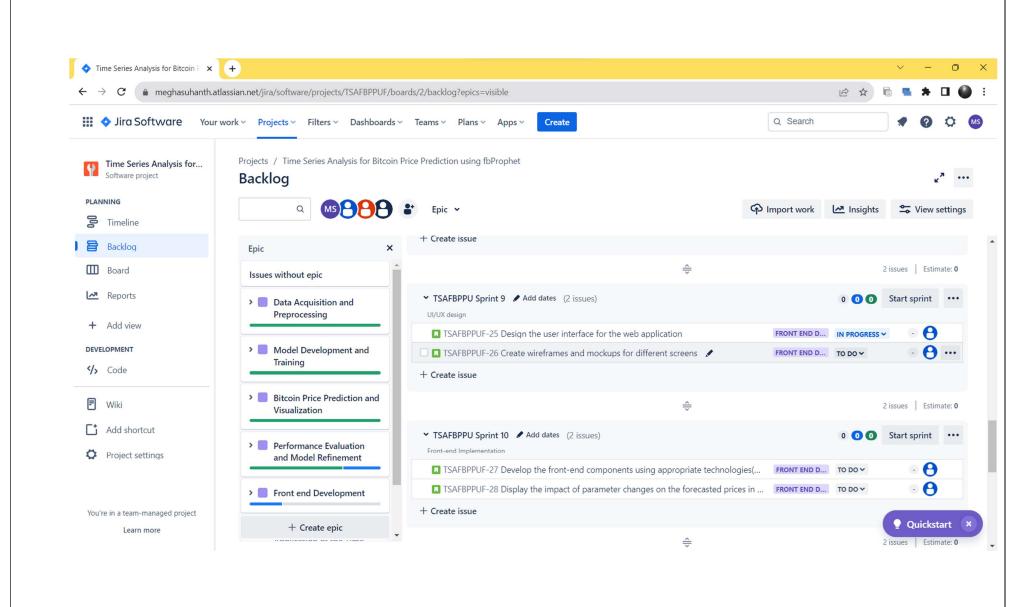
Backlog:

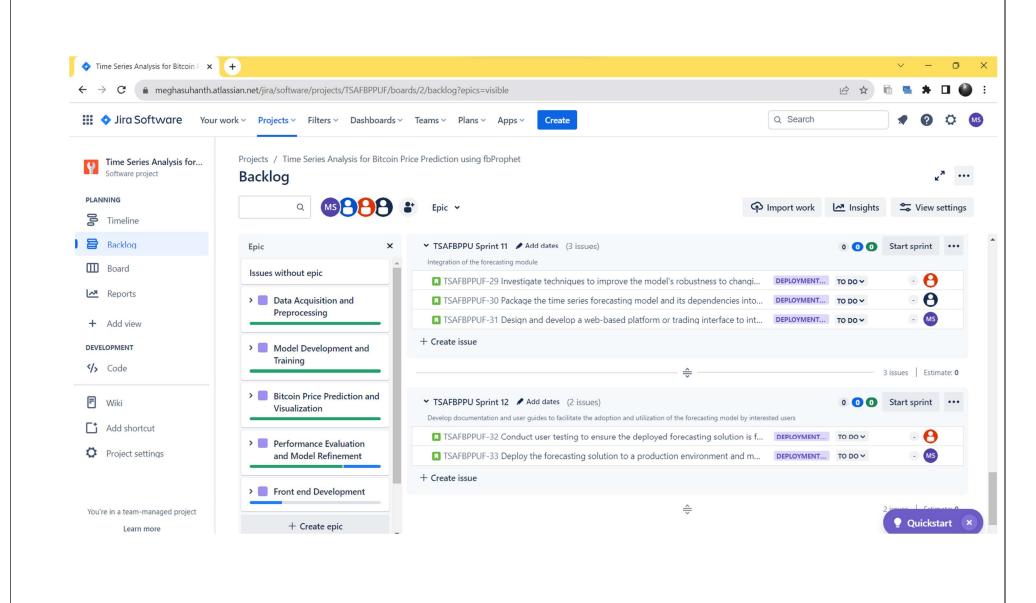




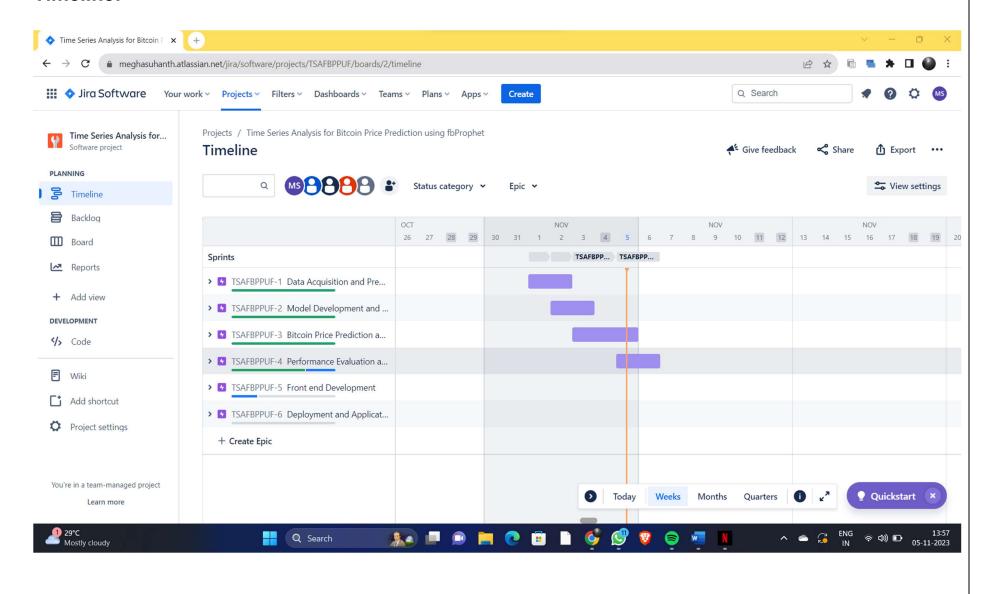








Timeline:



https://www.visual-paradigm.com/scrum/scrum-burndown-chart/ https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:

https://www.atlassian.com/agile/project-management https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

https://www.atlassian.com/agile/tutorials/burndown-charts