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

Date	05 November 2023
Team ID	592203
Project Name	AI-Driven Optimization Of 5G Resource Allocation For Network Efficiency
Maximum Marks	8 Marks

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	AI-Driven Resource Allocation	USN-1	As a user, I want the AI system to allocate network resources dynamically based on real-time demand and traffic patterns to optimize network efficiency.	3	High	Jyothsna
Sprint-2	Model Integration and Evaluation	USN-2	As a user, I need to integrate my machine learning models into the	4	High	Vaishnavi

			system for real-time resource allocation optimization			
Sprint-2	Network Anomaly Detection	USN-4	As a user, I want the AI system to detect and alert us to unusual network behavior or security threats	1	Medium	Rohith
Sprint-2	User Experience Enhancement	USN-5	As a user, I want the AI system to provide real-time performance analytics and reporting."	2	Medium	Neha
Sprint-2	Performance Reporting	USN-7	As a user, I want automated reports summarizing network performance and resource utilization, so I can make data-driven recommendations to executives	3	Medium	Rohith
Sprint-3	AI Model Development and Testing	USN-3	As a user, I need access to data preprocessing tools to clean and prepare the network data for AI model development	4	High	Jyothsna
Sprint-3	Performance Monitoring	USN-6	As a User, I want to monitor and track the performance of the AI-driven allocation system.	3	Medium	Vaishnavi

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	3	8 Days	24 Oct 2023	29 Oct 2023	3	29 Oct 2023
Sprint-2	10	11 Days	31 Oct 2023	05 Nov 2023	10	05 Nov 2023
Sprint-3	7	9 Days	07 Nov 2023	12 Nov 2023	7	12 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)

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

AV = 28/20=1.4

Burndown Chart:

A burndown 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.
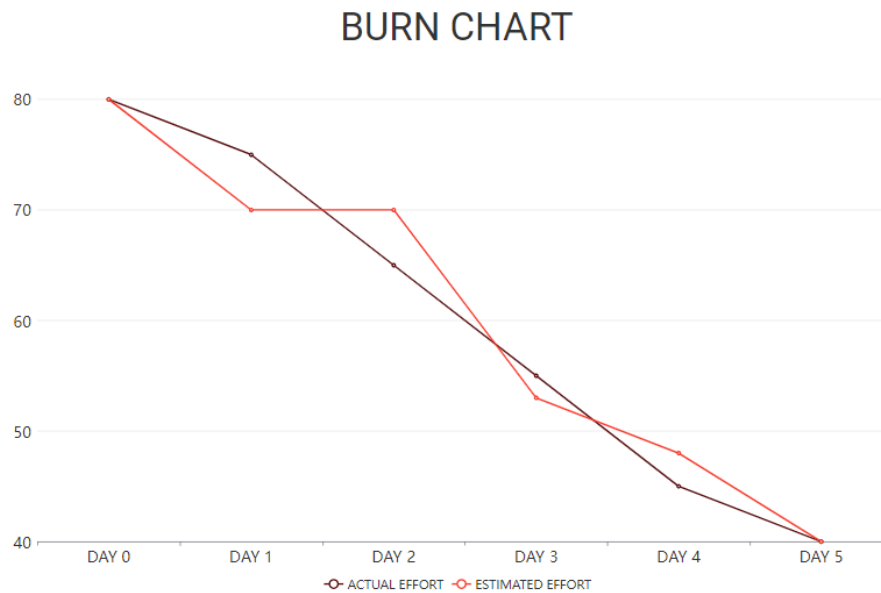
BURN CHART

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

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

Board Section:

AI-Driven Optimizatio...
Software project

PLANNING

- Timeline
- Backlog
- **Board**

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DEVELOPMENT

- Code

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Projects / AI-Driven Optimization Of 5G Resource Allocation For Network Efficiency

All sprints

🔍 (J) (VG) (JR) (N) 👤+   Epic ⌄   Sprint ⌄   GROUP B

TO DO 6	IN PROGRESS 1	DONE ✓ •••
As a user, I need to integrate my machine learning models into the system for real-time resource allocation optimization **MODEL INTEGRATION AND EVALUATION** 🟩 ADO5RAFNE-4 4 (VG)	As a user, I want the AI system to allocate network resources dynamically based on real-time demand and traffic patterns to optimize network efficiency. **AI-DRIVEN RESOURCE ALLOCATION** 🟩 ADO5RAFNE-2 3 (J)	
As a user, I want the AI system to detect and alert us to unusual network behavior or security threats **MODEL INTEGRATION AND EVALUATION** 🟩 ADO5RAFNE-5 1 (JR)		
As a user, I want the AI system to provide real-time performance analytics and reporting." **MODEL INTEGRATION AND EVALUATION** 🟩 ADO5RAFNE-6 2 (N)		

Timeline Section:

AI-Driven Optimization ...
Software project

Projects / AI-Driven Optimization Of 5G Resource Allocation For Network Efficiency

Timeline

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Timeline

Backlog

Board

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Status category ⌄   Epic ⌄

View settings

Sprints		OCT		NOV	DEC	JAN '24	FEB '24	MAR
		AFN Sprint 1	ADO5... ADO5...					
⌄ ADO5RAFNE-1 AI-Driven Resource Allo...								
ADO5RAFNE-2 As... IN PROGRESS								
⌄ ADO5RAFNE-3 Model Integration and E...								
ADO5RAFNE-4 As a use... TO DO								
ADO5RAFNE-5 As a use... TO DO								
ADO5RAFNE-6 As a use... TO DO								
ADO5RAFNE-7 As a use... TO DO								
⌄ ADO5RAFNE-8 AI Model Development ...								
ADO5RAFNE-9 As a use... TO DO								
ADO5RAFNE-10 As a Us... TO DO								
+ Create Epic								

Today Weeks **Months** Quarters

Backlog Section:

Backlog

🔍 [search]   J VG JR N   👤   Epic ⌄   📈 Insights   ⚙ View settings

AI-Driven Optimizatio...
Software project

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📋 Timeline

📊 Backlog

🗂 Board

➕ Add view

DEVELOPMENT

</> Code

📄 Project pages

➕ Add shortcut

⚙ Project settings

⌄ **ADO5RAFN Sprint 1** 7 Oct – 29 Oct (1 issue)   0 3 0 Complete sprint ⋯

  ▫ ADO5RAFNE-2 As a user, I want the AI system to allocate network resources dynamically based on rea...   AI-DRIVEN RESOURC...   IN PROGRESS ⌄   3   J

  ➕ Create issue

⌄ **ADO5RAFN Sprint 2** 31 Oct – 5 Nov (4 issues)   10 0 0 Complete sprint ⋯

  ▫ ADO5RAFNE-4 As a user, I need to integrate my machine learning models into the system for real-time...   MODEL INTEGRATION...   TO DO ⌄   4   VG

  ▫ ADO5RAFNE-5 As a user, I want the AI system to detect and alert us to unusual network behavior or s...   MODEL INTEGRATION...   TO DO ⌄   1   JR

  ▫ ADO5RAFNE-6 As a user, I want the AI system to provide real-time performance analytics and reportin...   MODEL INTEGRATION...   TO DO ⌄   2   N

  ▫ ADO5RAFNE-7 As a user, I want automated reports summarizing network performance and resource u...   MODEL INTEGRATION...   TO DO ⌄   3   JR

  ➕ Create issue

⌄ **ADO5RAFN Sprint 3** 7 Nov – 12 Nov (2 issues)   7 0 0 Complete sprint ⋯

  ▫ ADO5RAFNE-9 As a user, I need access to data preprocessing tools to clean and prepare the network ...   AI MODEL DEVELOPM...   TO DO ⌄   4   J

  ▫ ADO5RAFNE-10 As a User, I want to monitor and track the performance of the AI-driven allocation sys...   AI MODEL DEVELOPM...   TO DO ⌄   3   VG

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

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