

Project Planning Phase

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

Date	27 October 2023
Team ID	PNT2023TMID591251
Project Name	Project - Vande Bharat Express: Pioneering India's High-Speed Rail Journey
Maximum Marks	20 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	Project setup and Infrastructure	USN-1	Prepare the project by configuring the development environment with the necessary tools and frameworks.	1	High	Sindhu
Sprint-1	Development environment	USN-2	Curate a varied dataset for Vandhe Bharat trains, encompassing a range of details such as Source, Destination, Distance, Time Taken, Average Speed, and Frequency. This dataset will serve as the training foundation for the deep learning model.	1	High	Dharshikha
Sprint-2	Data Collection	USN-3	Refine the gathered dataset through preprocessing, which involves formatting the data and dividing it into distinct training and validation sets.	2	High	Lakshman
Sprint-2	Data Preprocessing	USN-4	Explore and assess various deep learning architectures to select the most fitting model for this specific project.	3	High	Lakshman
Sprint-3	Training	USN-5	Incorporate data augmentation techniques, such as rotation and flipping, to enhance the model's resilience and accuracy.	4	Medium	Dharshikha
Sprint-4	Model Deployment and Integration	USN-6	Make the dashboard available as a web service to grant users easy access. Seamlessly integrate the model's API into a user-friendly web interface, ensuring users can effortlessly obtain the necessary output.	2	Medium	Sindhu
Sprint-5	Testing & Quality Assurance	USN-7	Conduct extensive testing on both the dashboard and visulations to detect and report any issues. To fine tune the hyperparameters and enhance performance by incorporating user feedback and testing results.	2	Medium	Sindhu

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	2 Days	21 Oct 2023	23 Oct 2023	15	23 Oct 2023
Sprint-2	5	3 Days	24 Oct 2023	27 Oct 2023		27 Oct 2023
Sprint-3	4	5 Days	28 Oct 2023	02 Nov 2023		
Sprint-4	2	2 Days	03 Nov 2023	05 Nov 2023		
Sprint-5	2	3 Days	06 Nov 2023	09 Nov 2023		

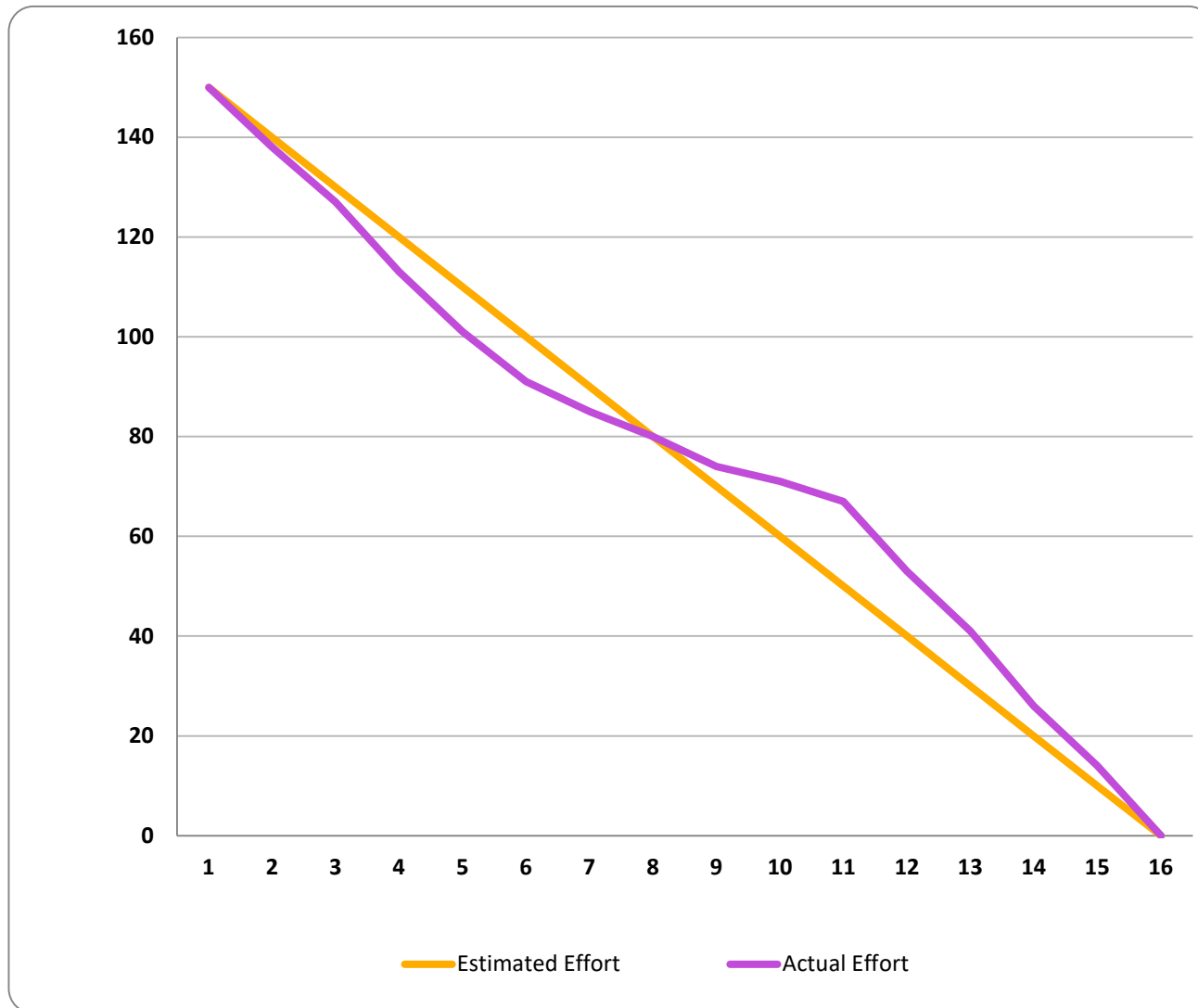
Velocity:

We have a 15-days sprint duration, and the velocity of the team is 15 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{\textit{sprint duration}}{\textit{velocity}}$$

$$AV = 15/15 = 1$$

Burndown Chart:



Board section.



We have completed sprint 1 and 2 and we are working on sprint 3. We can notice that the remaining tasks on board.


The screenshot displays a Kanban board for the 'Vandhe Bharat' project. The board is organized into three columns: 'TO DO' (3 tasks), 'IN PROGRESS' (2 tasks), and 'COMPLETED' (2 tasks). Each task card includes a description, a due date, a checkbox, and a task ID.


Column	Task ID	Description	Due Date	Status
TO DO (3)	VB-5	Incorporate data augmentation techniques, such as rotation and flipping, to enhance the model's resilience and accuracy.	02 NOV	Not started
	VB-6	Make the dashboard available as a web service to grant users easy access. Seamlessly integrate the model's API into a user-friendly web interface, ensuring users can effortlessly obtain the necessary output	05 NOV	Not started
	VB-7	Conduct extensive testing on both the dashboard and visualizations to detect and report any issues. To fine tune the hyperparameters and enhance performance by incorporating user feedback and testing results.	09 NOV	Not started
IN PROGRESS (2)	VB-3	Refine the gathered dataset through preprocessing, which involves formatting the data and dividing it into distinct training and validation sets.	27 OCT	In progress
	VB-4	Explore and assess various deep learning architectures to select the most fitting model for this specific project.	27 OCT	In progress
COMPLETED (2)	VB-1	Prepare the project by configuring the development environment with the necessary tools and frameworks.	23 OCT	Completed
	VB-2	Curate a varied dataset for Vandhe Bharat trains, encompassing a range of details such as Source, Destination, Distance, Time Taken, Average Speed, and Frequency. This dataset will serve as the training foundation for the deep learning model.	23 OCT	Completed



At the bottom of the 'TO DO' column, there is a '+ Create' button.


List Section

 **Vandhe Bharat** 



[Summary](#) [Board](#) [List](#) [Calendar](#) [Timeline](#) [Forms](#) [Pages](#) [Issues](#) [Reports](#) [Shortcuts](#)  [Project settings](#)




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<input type="checkbox"/>	Type	# Key	Summary	Status	Priority	Due date
<input type="checkbox"/>	<input checked="" type="checkbox"/>	VB-1	Prepare the project by configuring the development environ...	COMPLETED	^	Oct 23, 2023
<input type="checkbox"/>	<input checked="" type="checkbox"/>	VB-2	Curate a varied dataset for Vandhe Bharat trains, encompassi...	COMPLETED	^	Oct 23, 2023
<input type="checkbox"/>	<input checked="" type="checkbox"/>	VB-3	Refine the gathered dataset through preprocessing, which inv...	IN PROGRESS	^	Oct 27, 2023
<input type="checkbox"/>	<input checked="" type="checkbox"/>	VB-4	Explore and assess various deep learning architectures to sele...	IN PROGRESS	^	Oct 27, 2023
<input type="checkbox"/>	<input checked="" type="checkbox"/>	VB-5	Incorporate data augmentation techniques, such as rotation a...	TO DO	=	Nov 2, 2023
<input type="checkbox"/>	<input checked="" type="checkbox"/>	VB-6	Make the dashboard available as a web service to grant users...	TO DO	=	Nov 5, 2023
<input type="checkbox"/>	<input checked="" type="checkbox"/>	VB-7	Conduct extensive testing on both the dashboard and visulati...	TO DO	>>	Nov 9, 2023

 Create

Timeline

