

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

Date	28 October 2022
Team ID	PNT2022TMID48349
Project Name	A Novel Method for Handwritten Digit Recognition System
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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Gokulakannan M
Sprint-1	confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Anbu Marish.M
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password	1	High	Naveen.R.S
Sprint-2	Data Collection	USN-4	As a user, I can collect the dataset from various resources with different handwritings.	1	Low	Balaji J

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Data Preprocessing	USN-5	As a user, I can load the dataset, handle the missing data, scaling and split data into train and test.	3	Medium	Gokulakannan M
Sprint-2	Model Building	USN-6	As a user, I will get an application with CNN model which provides high accuracy of recognized handwritten digit.	1	High	Anbu Marish.M
Sprint-3	Add CNN layers	USN-7	Creating the model and adding the input, hidden, and output layers to it.	5	High	Naveen.R.S
Sprint-3	Compiling the model	USN-8	With both the training data defined and model defined, it's time to configure the learning process.	2	Medium	Balaji J
Sprint-3	Train & test the model	USN-9	As a user, let us train our model with our image dataset.	5	Medium	Gokulakannan M
Sprint-3	Save the model	USN-10	As a user, the model is saved & integrated with an android application in order to predict something.	2	Low	Anbu Marish.M
Sprint-4	Train the model on IBM	USN-11	As a user, I train the model on IBM and integrate flask/Django with scoring end points.	3	High	Naveen.R.S
Sprint-4	Cloud Deployment	USN-12	As a user, I can access the web application and make use of the product from anywhere.	8	High	Balaji J

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	15	6 Days	24 Oct 2022	29 Oct 2022	15	29 Oct 2022
Sprint-2	5	6 Days	31 Oct 2022	05 Nov 2022	5	05 Nov 2022
Sprint-3	14	6 Days	07 Nov 2022	12 Nov 2022	14	12 Nov 2022
Sprint-4	11	6 Days	14 Nov 2022	19 Nov 2022	11	19 Nov 2022

Velocity:

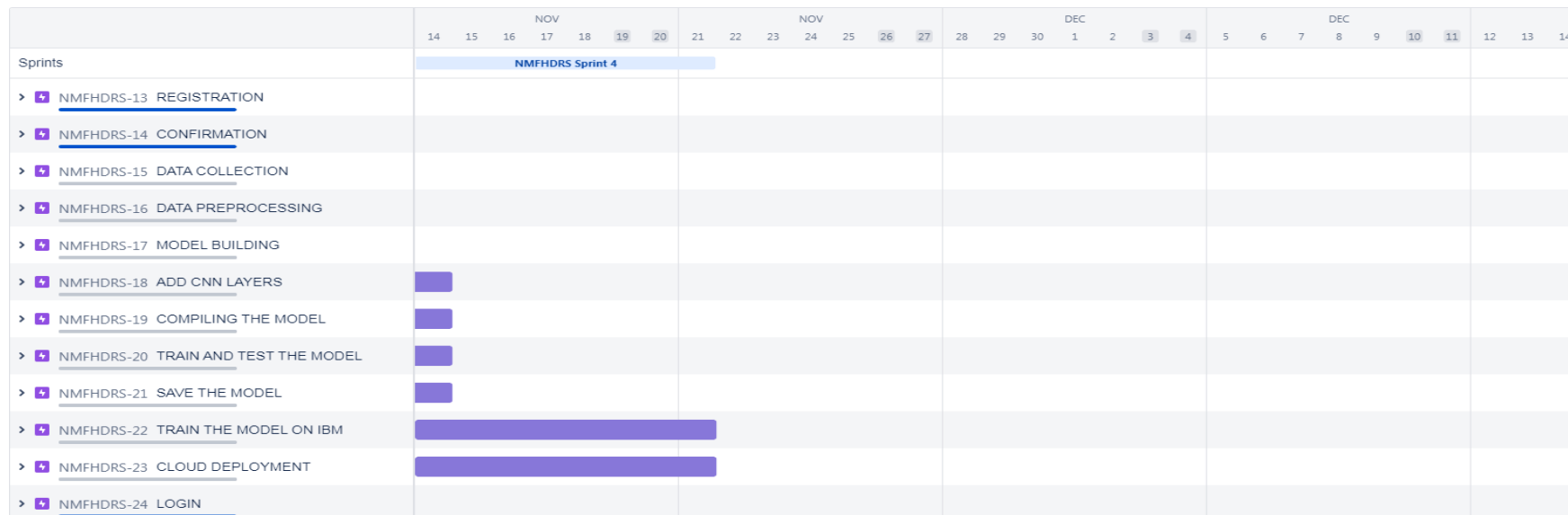
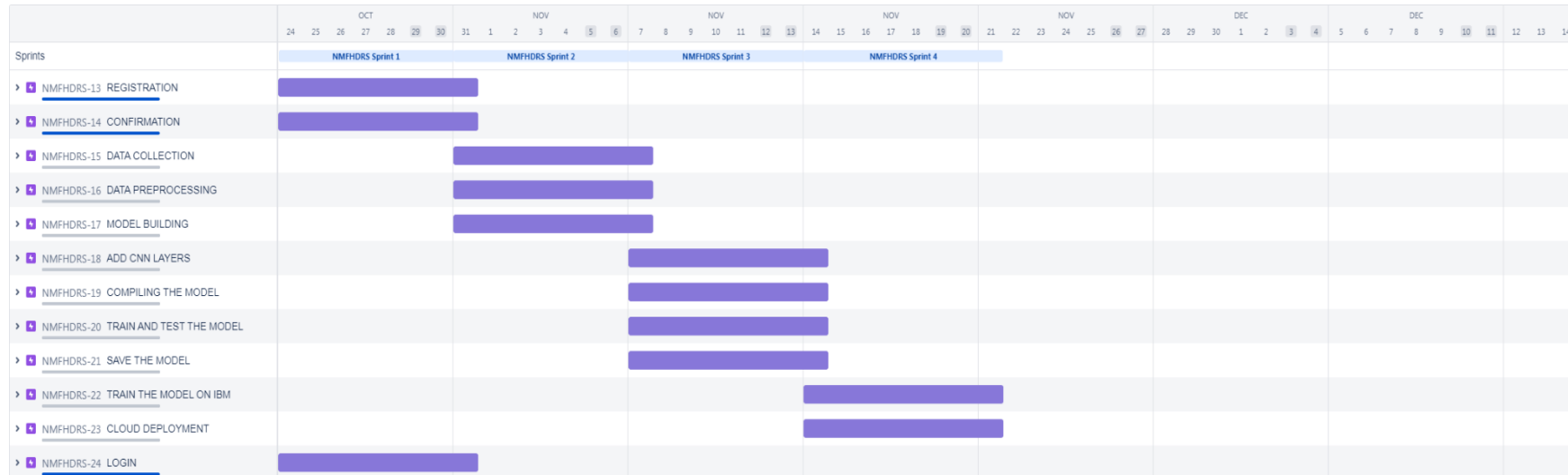
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

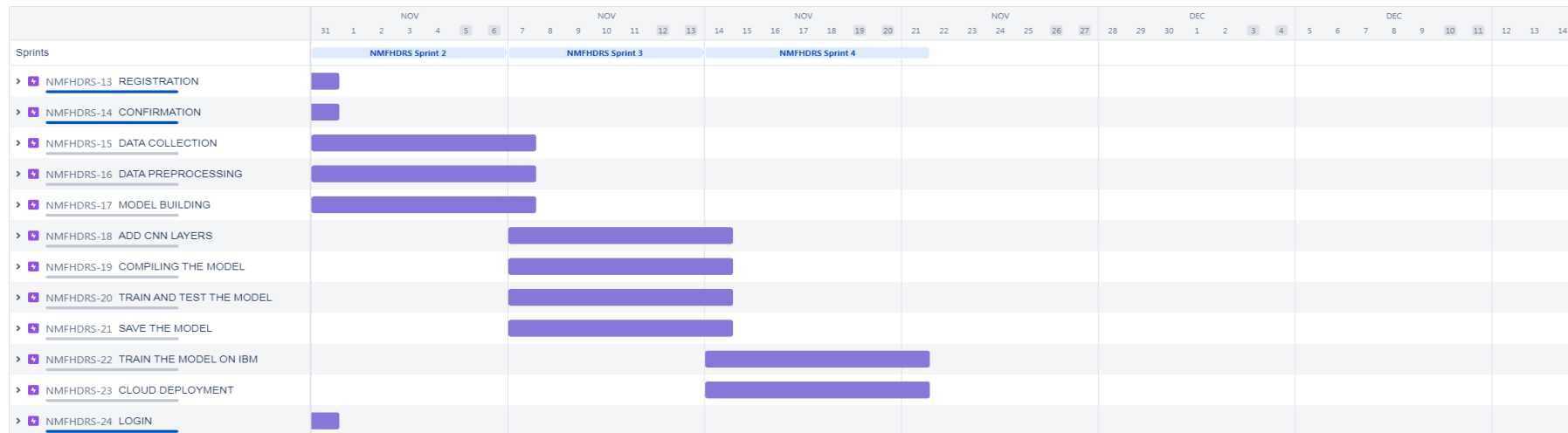
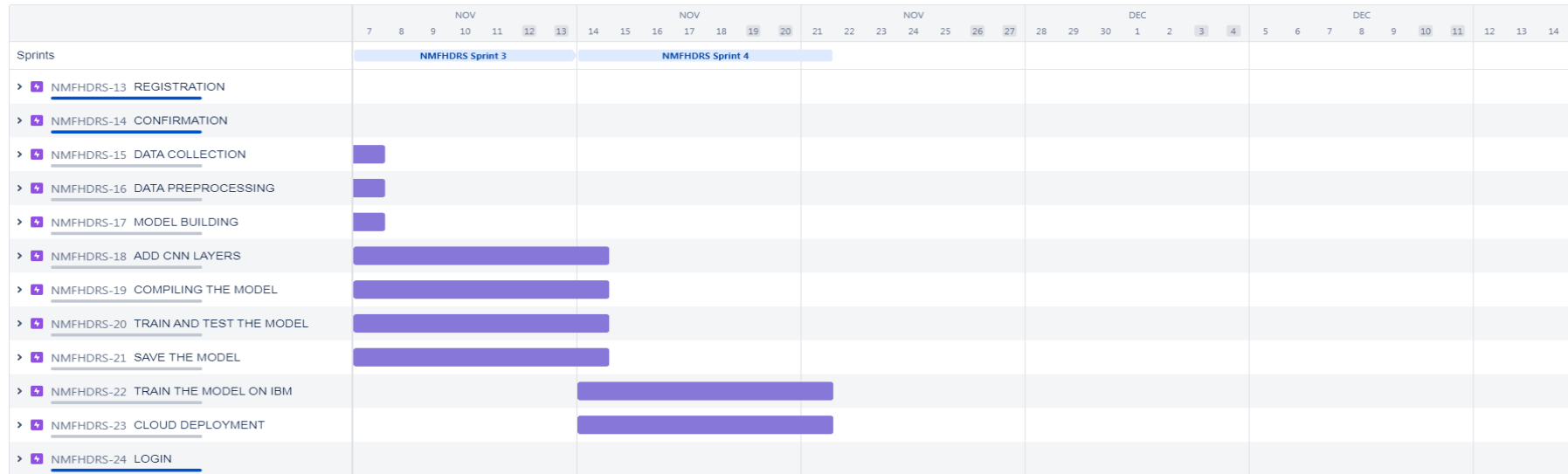
$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$

Sprint	Total story points	Duration	Average velocity
Sprint 1	15	6 Days	2.5
Sprint 2	5	6 Days	0.83
Sprint 3	14	6 Days	2.33
Sprint 4	11	6 Days	1.83
Total	45	24	1.87

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, burndown charts can be applied to any project containing measurable progress over time.





	SEP	OCT	NOV	
Sprints			NMFH... NMFH... NMFH... NMFHD...	
> NMFHDRS-13 REGISTRATION				
> NMFHDRS-14 CONFIRMATION				
> NMFHDRS-15 DATA COLLECTION				
> NMFHDRS-16 DATA PREPROCESSING				
> NMFHDRS-17 MODEL BUILDING				
> NMFHDRS-18 ADD CNN LAYERS				
> NMFHDRS-19 COMPILING THE MODEL				
> NMFHDRS-20 TRAIN AND TEST THE MODEL				
> NMFHDRS-21 SAVE THE MODEL				
> NMFHDRS-22 TRAIN THE MODEL ON IBM				
> NMFHDRS-23 CLOUD DEPLOYMENT				
> NMFHDRS-24 LOGIN				