Project Planning Phase

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

Date	6 November 2023
Team ID	Team-592710
Project Name	Alzheimer Disease Prediction
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation:

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Project setup & Infrastructure	USN-1	Set up the development environment with the required tools and frameworks to start the garbage classification project.	1	High	Nikitha
Sprint-1	Development environment	USN-2	Gather a diverse dataset of images containing different types of garbage (plastic, paper, glass, organic) for training the deep learning model.	2	High	Nikitha
Sprint-2	Data collection	USN-3	Preprocess the collected dataset by resizing images, normalizing pixel	2	High	Rohan

			values, and splitting it into training and validation sets			
Sprint-2	data preprocessing	USN-4	Explore and evaluate different deep learning architectures (e.g., CNNs) to select the most suitable model for garbage classification.	3	High	Akarsha
Sprint-3	model development	USN-5	train the selected deep learning model using the preprocessed dataset and monitor its performance on the validation set.	4	High	Sohith
Sprint-3	Training	USN-6	implement data augmentation techniques (e.g., rotation, flipping) to improve the model's robustness and accuracy.	6	Medium	Rohan
Sprint-4	model deployment & Integration	USN-7	deploy the trained deep learning model as an API or web service to make it accessible for garbage classification. integrate the model's API into a user-friendly web interface for users to upload images and receive garbage classification results.	1	Medium	Sohith
Sprint-5	Testing & quality assurance	USN-8	conduct thorough testing of the model and web interface to identify and report any issues or bugs. fine-tune the model hyperparameters and optimize its performance based on user feedback and testing results.	1	Medium	Akarsha

Project Tracker, Velocity & Burndown Chart:

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	1 Days	30 Oct 2023	30 Oct 2023	20	3 Nov 2023
Sprint-2	5	4 Days	31 Oct 2023	3 Nov 2023		
Sprint-3	10	5 Days	4 Nov 2023	8 Nov 2023		
Sprint-4	1	10 Days	9 Nov 2023	18 Nov 2023		
Sprint-5	1	4 Days	19 Nov 2023	22 Nov 2023		

Velocity:

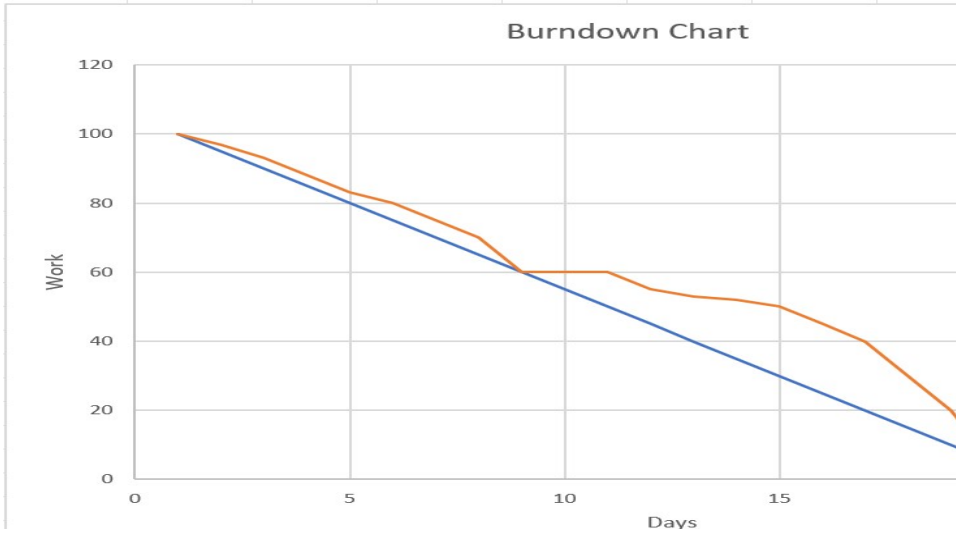
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

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

AV = 24/20 =1.2

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.



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

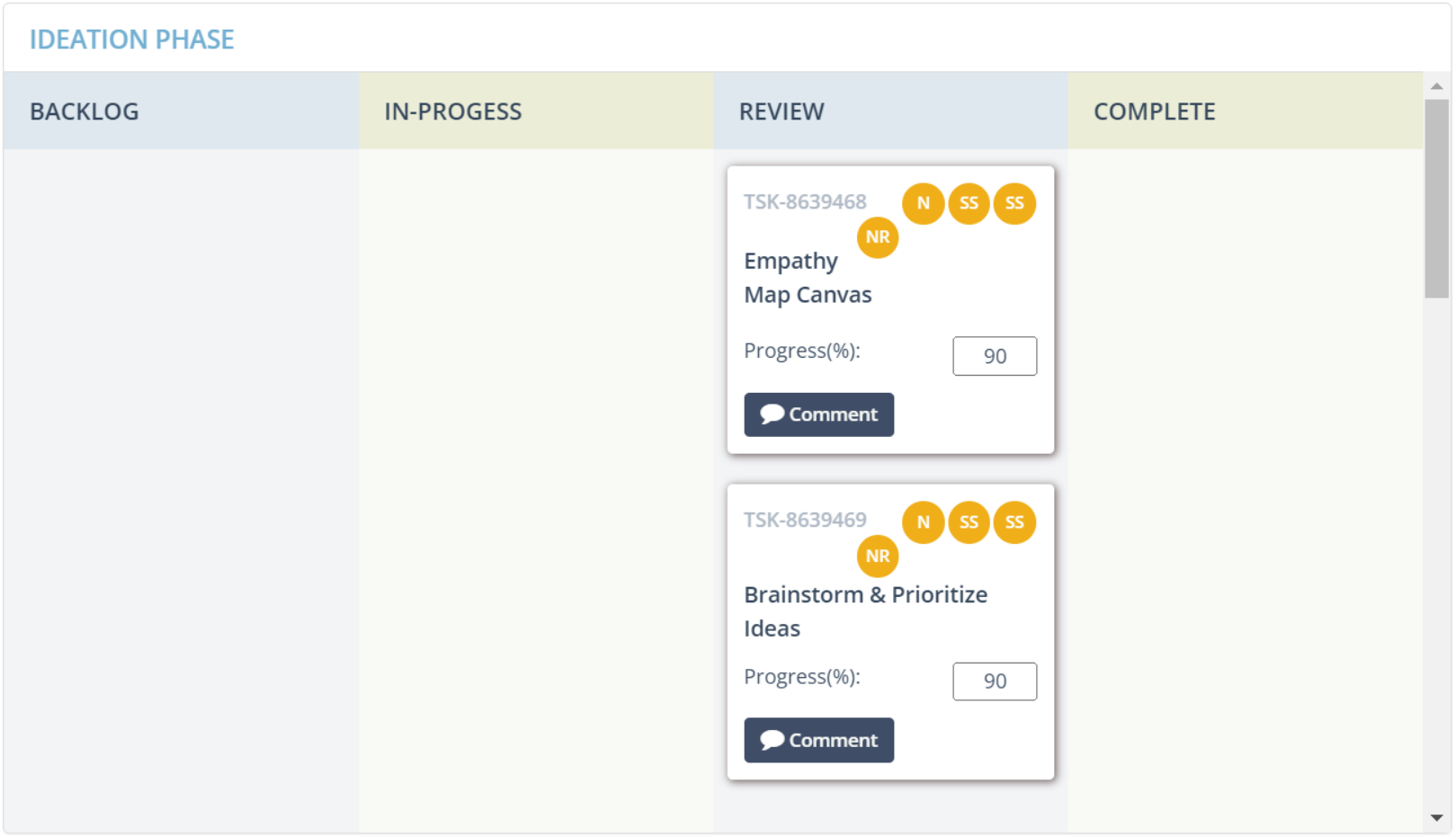
https://www.atlassian.com/agile/tutorials/sprints

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

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

Board section:

We have completed sprint 1 and 2. So we can see the remaining tasks on board.



PROJECT DESIGN PHASE

BACKLOG	IN-PROGESS	REVIEW	COMPLETE
		TSK-8639470 N SS SS NR Proposed Solution Progress(%): 90 Comment	
		TSK-8639471 N SS SS NR Solution Architecture Progress(%): 90 Comment	

PROJECT DESIGN PHASE

TSK-8639471 N SS SS NR

Solution Architecture

Progress(%): 90

Comment

TSK-8639472 N SS SS NR

Determine The Requirements (Data Flow Diagram)

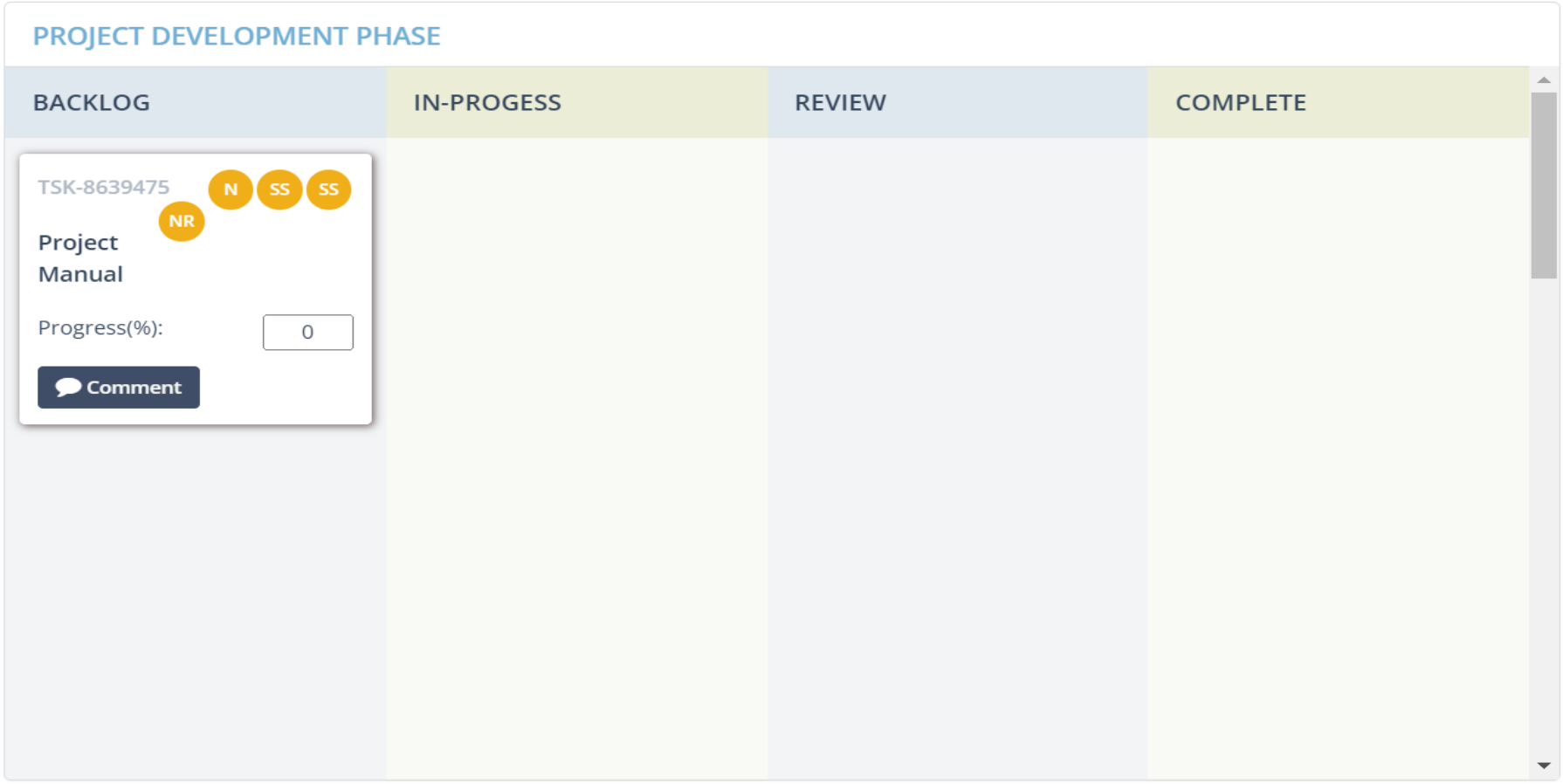
Progress(%): 90

Comment

PROJECT PLANNING PHASE

BACKLOG	IN-PROGESS	REVIEW	COMPLETE
	TSK-8639473 N SS SS NR Technology Stack Progress(%): 50 Comment		
	TSK-8639474 N SS SS NR Project Planning Details Progress(%): 50 Comment		

Backlog section



PERFORMANCE & FINAL SUBMISSION PHASE

BACKLOG	IN-PROGESS	REVIEW	COMPLETE

TSK-8639476 N SS SS NR

Solution Performance

Progress(%): 0

Comment

TSK-8639477 N SS SS NR

Project Documenation

Progress(%): 0

Comment