

Project Planning Phase

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

Date	31 October 2023
Team ID	Team-593479 (2.4)
Project Name	Malware Detection and Classification
Maximum Marks	8 Marks

Team Members:

Ramar Priya Maha Lakshmi

Chevala Syam Sai

Panchada Varun

Mulumudi Prabhas

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 & Infrastructure	USN-1	Set up the development environment with the required tools and frameworks to start the malware detection and classification project.	1	High	Prabhas
Sprint-1	development environment	USN-2	Gather a diverse dataset of known malwares for training the AI model.	2	High	Syam
Sprint-2	Data collection and classification.	USN-3	Classify the known malwares into their specified categories.	2	High	Syam

Sprint-2	data preprocessing	USN-4	Explore and evaluate different AI architectures (e.g., PyTorch) to select the most suitable model for malware detection and classification.	3	High	Varun
Sprint-3	model development	USN-5	Train the model and input it with new malwares.	4	High	Prabhas
Sprint-3	Training	USN-6	Implement new techniques to increase the accuracy of model.	6	medium	Varun
Sprint-4	model deployment & Integration	USN-7	deploy the trained model as an API or web service to make it accessible for malware classification.	1	medium	Priya
Sprint-4	Website development	USN-7	Integrate the model's API into a user-friendly web interface for users to upload their files and report is generated.	1	Medium	Priya
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	High	Priya

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	3 Days	1 Oct 2023	3 Oct 2023	20	3 Sep 2023
Sprint-2	5	5 Days	4 Oct 2023	8 Oct 2023		
Sprint-3	10	7 Days	9 Oct 2023	15 Oct 2023		
Sprint-4	2	7 Days	16 Oct 2023	19 Oct 2023		
Sprint-5	1	7 Days	19 Oct 2023	25 Oct 2023		

Velocity:

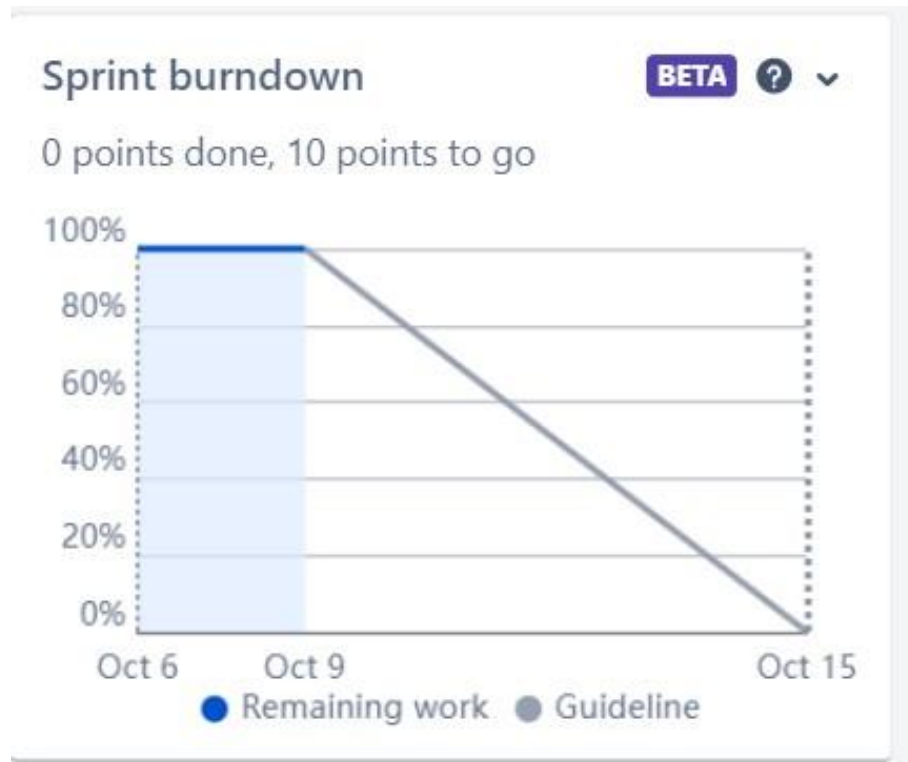
Imagine we have a 30-days sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV=30/20=1.5$$

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.

Burndown Chart:

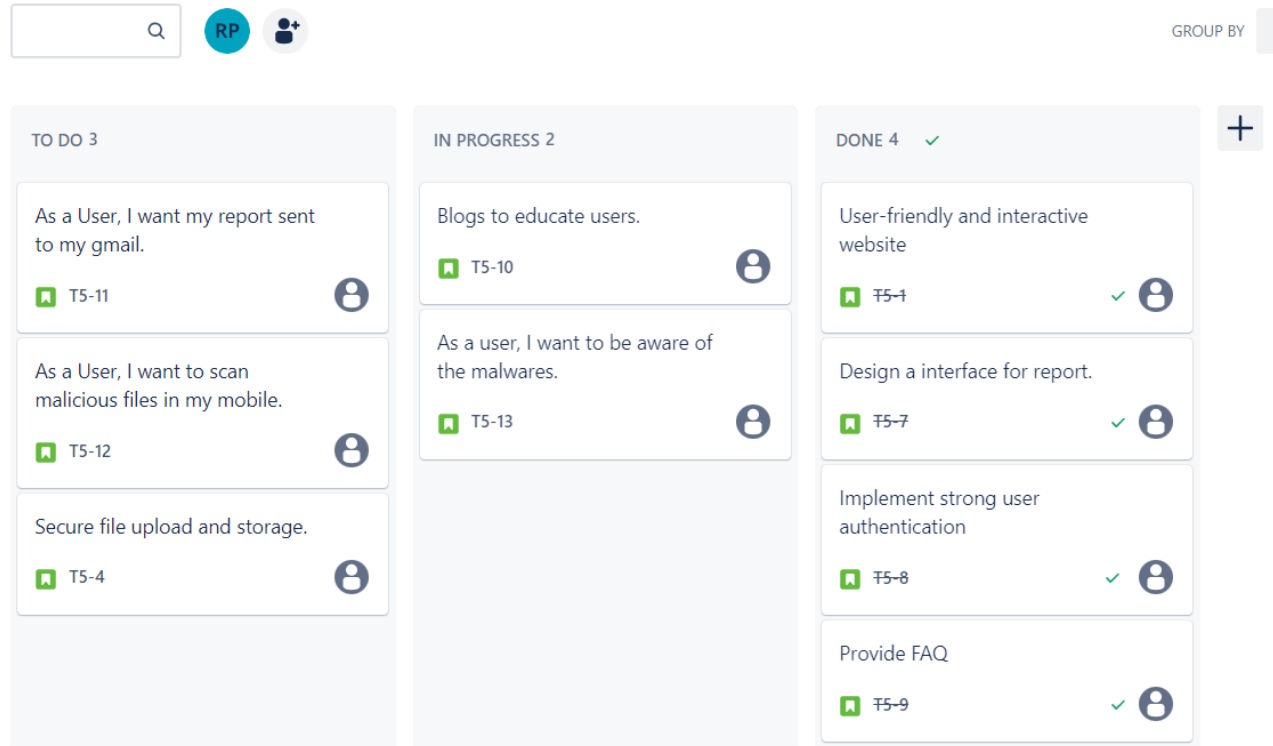


Board section.

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

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T5 Sprint 1



Backlog section

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Backlog

RP

Epic ▾

▼ T5 Sprint 1 31 Oct – 14 Nov (9 issues)

000Complete sprint⋮

T5-1 User-friendly and interactive website	DONE ▾	-	
T5-7 Design a interface for report.	DONE ▾	-	
T5-8 Implement strong user authentication	DONE ▾	-	
T5-9 Provide FAQ	DONE ▾	-	
T5-10 Blogs to educate users.	IN PROGRESS ▾	-	
T5-13 As a user, I want to be aware of the malwares.	IN PROGRESS ▾	-	
T5-11 As a User, I want my report sent to my gmail.	TO DO ▾	-	
T5-12 As a User, I want to scan malicious files in my mobile.	TO DO ▾	-	
T5-4 Secure file upload and storage.	TO DO ▾	-	

▼ T5 Sprint 2 14 Nov – 28 Nov (3 issues)

000Start sprint⋮

T5-3 Train the AI model with known malwares.	IN PROGRESS ▾	-	
T5-18 Feed known malwares	TO DO ▾	-	
T5-2 Behaviour based system to classify malware easily.	IN PROGRESS ▾	-	

Create issue

Timeline

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Timeline

Give feedback Share

Status category

Epic

