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

Date	18 November 2023
Team ID	
Project Name	ConstructGuard_YOLO-Based Saftey Gear Survilance
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	Project setup & Infrastructure	USN-1	Workers are provided a safety button that can be pressed to trigger emergency alert. Alert sent to safety manager with worker's location. Emergency response process is initiated immediately	1	High	Rakesh
Sprint-1	Development environment	USN-2	Gather a diverse dataset of images containing different types for training the deep learning model.	2	High	Kamal
Sprint-2	Data collection	USN-3	the use of technologyhas been positive, as it enables them to identify at very early stages and take necessary actions to improve construction sites	3	High	Siri
Sprint-2	data preprocessing	USN-4	Explore and evaluate different deep learning architectures (e.g., CNNs) to select the most suitable model for ConstructGuard_YOLO-Based Saftey Gear Survilance classification.	4	High	Nazziia
Sprint-3	model development	USN-5	train the selected deep learning model using the preprocessed dataset and monitor its performance on the validation set.	5	High	Rakesh
Sprint-3	Training	USN-6	Incorporate data augmentation methods, such as rotation and flipping, to enhance the model's resilience and boost its accuracy.	6	Medium	Kamal
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.	2	Medium	Siri
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	Nazziia

Project Tracker, Velocity & Burndown Chart: (4 Marks)

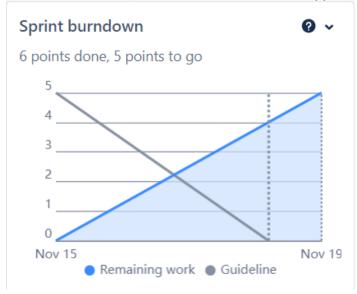| Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	3	3 Days	7 Nov 2023	10 Nov 2023	20	11 Nov 2023
Sprint-2	7	4 Days	9 Nov 2023	13 Nov 2023		
Sprint-3	11	4 Days	15 Nov 2023	19 Nov 2023		
Sprint-4	2	4 Days	16 Nov 2023	20 Nov 2023		
Sprint-5	1	4 Days	17 Nov 2023	21 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)

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

Burndown Chart:

A burn down 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
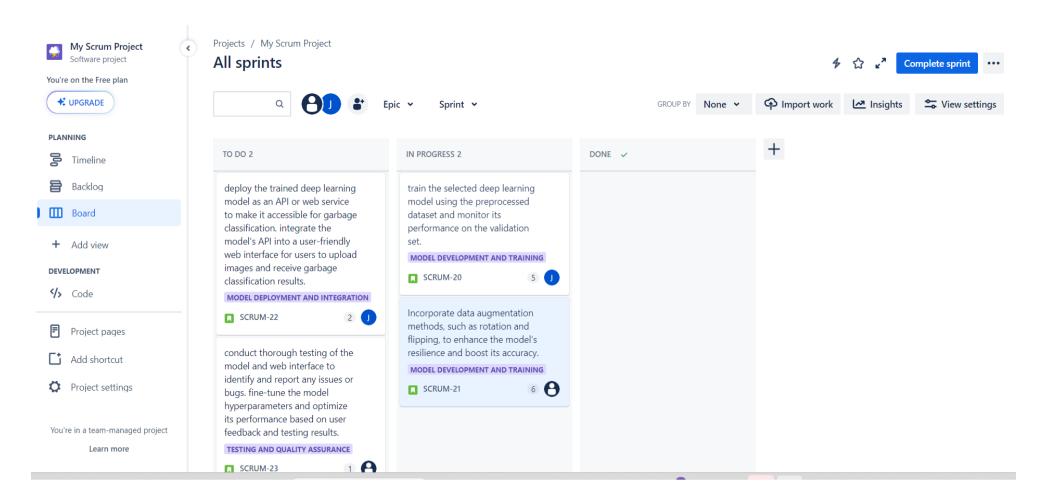
https://www.atlassian.com/agile/tutorials/epics

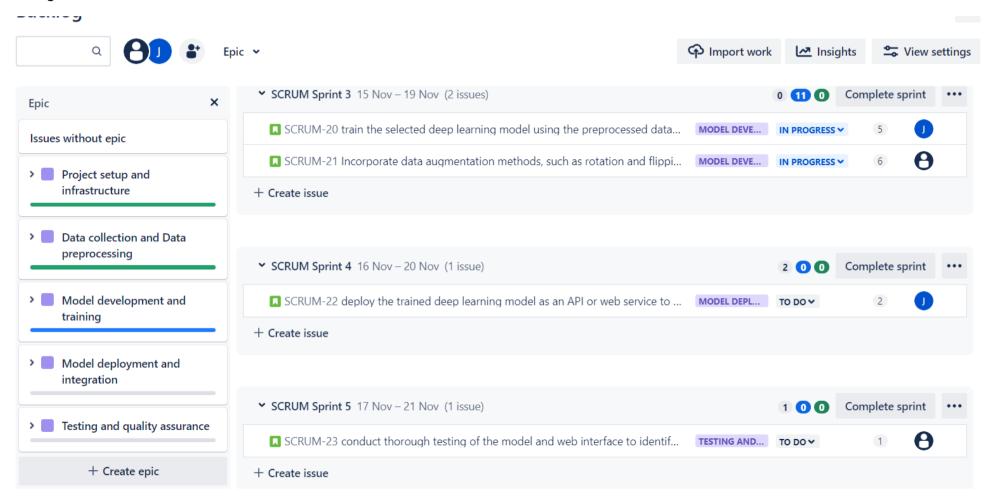https://www.atlassian.com/agile/tutorials/sprints

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

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

Board Section:

Backlog section:

Backlog

☁ Import work 📈 Insights ⚙ View settings

Epic	✕
Issues without epic	

> 🟪 Project setup and infrastructure
―――――――――

> 🟪 Data collection and Data preprocessing
―――――――――

> 🟪 Model development and training
―――――――――

> 🟪 Model deployment and integration
―――

> 🟪 Testing and quality assurance
―――

➕ Create epic

⌄ **SCRUM Sprint 3** 15 Nov – 19 Nov (2 issues)   0 **11** 0 Complete sprint •••

🔖 SCRUM-20 train the selected deep learning model using the preprocessed data... `MODEL DEVE...` **IN PROGRESS ⌄**   5   Ⓙ

🔖 SCRUM-21 Incorporate data augmentation methods, such as rotation and flippi... `MODEL DEVE...` **IN PROGRESS ⌄**   6   👤

➕ Create issue

⌄ **SCRUM Sprint 4** 16 Nov – 20 Nov (1 issue)   2 0 0 Complete sprint •••

🔖 SCRUM-22 deploy the trained deep learning model as an API or web service to ... `MODEL DEPL...` **TO DO ⌄**   2   Ⓙ

➕ Create issue

⌄ **SCRUM Sprint 5** 17 Nov – 21 Nov (1 issue)   1 0 0 Complete sprint •••

🔖 SCRUM-23 conduct thorough testing of the model and web interface to identif... `TESTING AND...` **TO DO ⌄**   1   👤

➕ Create issue

Timeline:

Timeline

📢 Give feedback   🔗 Share   ⬆ Export   •••

🔍   😊 J C 😊   👤⁺   Status category ⌄   Epic ⌄   ⚙ View settings

		NOV	DEC	JAN '24
Sprints		▮▮ SCR...		
🔖 S̶C̶R̶U̶M̶-̶1̶0̶ To set up a p... **DONE** 👤		▮		
🔖 S̶C̶R̶U̶M̶-̶1̶1̶ Gather a div... **DONE** 🅒		▮		
⚡ SCRUM-12 Data collection and Data pre...		▮ ⚠		
🔖 S̶C̶R̶U̶M̶-̶1̶8̶ the use of te... **DONE** 🅙		▮		
🔖 S̶C̶R̶U̶M̶-̶1̶9̶ Explore and ... **DONE** 🅒		▮		
⚡ SCRUM-15 Model development and trai...		▮		
🔖 SCRUM-20 train t... **IN PROGRESS** 🅙		▮		
🔖 SCRUM-21 Incorp... **IN PROGRESS** 👤		▮		
⚡ SCRUM-16 Model deployment and ... ➕		▮		
⚡ SCRUM-17 Testing and quality assurance		▮		

❯   Today   Weeks   **Months**   Quarters   ⓘ ⤢