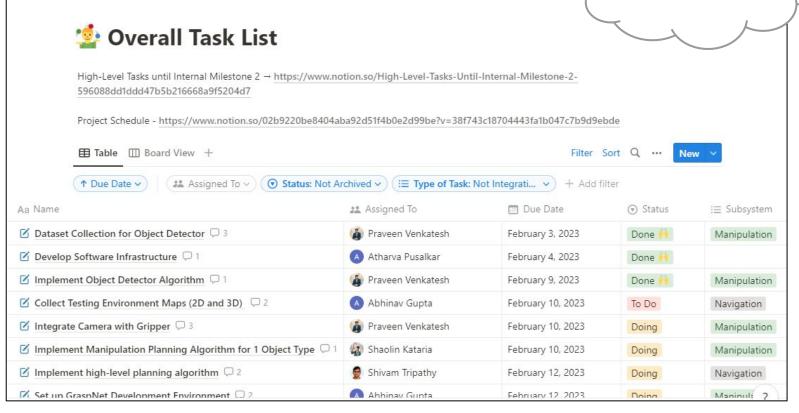
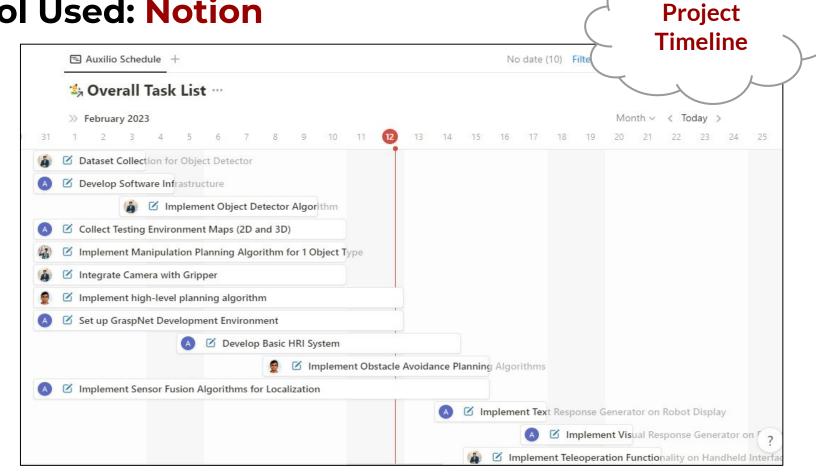
Task Management









Implement Object Detector Algorithm

22 Assigned To

Praveen Venkatesh

Start Date

February 3, 2023

Due Date

February 9, 2023

Status

Done !

Created By

Shivam Tripathy

Date Created

January 6, 2023 12:48 PM

Perception

∷ Subsystem

Manipulation

+ Add a property

Praveen Venkatesh Jan 22

@Shivam Tripathy scope added

9

Add a comment...

Task Template

Praveen Venkatesh Jan 22 @Shivam Tripathy scope added

9

Add a comment...

Objectives

- + !! Why do we need this task? Attach links for greater context where applicable (eg. meeting notes, documentation). (delete this blue text prior to starting)
- + !! To implement a custom object detection algorithm for manipulation capabilities.

Scope

What must be done to complete this task? Use bulleted / numbered lists to structure the scope. (delete this blue text prior to starting)

- 1. Object Detection:
 - a. Finalize object detection model (YOLOv8) (2-3 hours),
 - b. Get training data of objects (8 hours) scaled down pipeline,
 - c. Automatic labeling pipeline (?? pipeline unsure)
 - d. Transfer learning with custom pipeline
 - i. (understanding yolo v8 implementation (3-4 hours),

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 - ii. modifying it (4-5 hours),
 - iii. training (3-4 hours)),
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Total est. time -> approx. 30 hours or 2 weeks



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Evidence of Completion

Attach proof of task completion (eg. document, image) and leave a comment above stating task completion. (delete this blue text prior to starting)

- List
- List



Clear Milestones

Milestones

Name	Date	Goal	Time Till Deadline
Internal Milestone 0	31st January (Tuesday)	Implement senior team's pipeline	1 week
Internal Milestone 1	21st February	Individual stacks working as per mandatory requirements (for 1 object)	4 weeks
Internal Milestone 2	4th March	Integrated HRI + Mobility system working for 1 object	5.5 weeks
PDR	13th March	Integrated HRI + Mobility system working for 1 object	7 weeks

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Office Hours

Team Availability

Name	Availability	
Shivam	MW: 1pm - 5pm, Fri: 10am - 1pm, 3pm - 5pm	
Praveen	MW: 4pm - 7pm, Fri: 10am - 1pm, 3pm - 6pm	
Shaolin	MW: 2pm - 7pm, Fri: 3pm - 5pm	
Abhinav	MW: 3pm - 7pm, Fri: 1pm - 6pm	
Atharva	W: 2pm - 6pm, Th: 12pm - 3pm, Fri: 12pm - 6pm	







Card System for Latecomers

Rules

- 10 min late (1 yellow),
- 30+ min late (1 red);
- 3 yellow / 2 red = Sponsor lunch for the team

■ Show All



Abhinav Gupta	Atharva Pusalkar	Praveen Venkatesh	Shaolin Kataria	Shivam Tripathy
January 21, 2023	January 20, 2023	January 17, 2023		







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■ Show All

Tracking

Abhinav Gupta	Atharva Pusalkar	Praveen Venkatesh	Shaolin Kataria	Shivam Tripathy
January 21, 2023	January 20, 2023	January 17, 2023		

