Sprint 3 Planning

Sprint team members

Name	Role
Sicheng Nie	Scrum Master
Renwei Hu	Product Owner
George Wang	Architecture Lead
Siyi Liu	Development Environment Lead
	Deployment Lead

Objectives

- 1. Integrate Franka Emilia to respond to issued commands.
- 2. Integrate demo code for voice recognition into a ROS2 node.
- Integrate YOLO with ROS2 for 2D object detection.
 Ensure all code is reviewed according to the set standards.
- 5. Upload all relevant documents for the current sprint to GitHub for versioning and collaboration.

Sprint 3 backlog

Epic	Epic ID	Task	Sub Task	Task ID	Story Point (1-10)	Assignee	Priority	Status
General Admin	GA	Documentation Update	Finish Sprint 3 planning	GA 2.13	4 pt	All	HIGH	IN PROGRESS
			Sync Sprint 3 tasks to Trello	GA 2.14	2 pt	All	HIGH	IN PROGRESS
			Weekly Trello screenshot	GA 2.15	1 pt	Renwei Hu	MEDIUM	IN PROGRESS
			Check sprint checklist	GA 2.16	2 pt		HIGH	IN PROGRESS
			Plan for Sprint 4	GA 2.17	2 pt		MEDIUM	IN PROGRESS
		Meetings	Meeting minutes	GA 3.5	3 pt	George Wang Ren wei Hu	MEDIUM	IN PROGRESS
		GitHub	Upload relevant sprint docs	GA 4.5	3 pt	All	HIGH	IN PROGRESS
		Tools documentation	Official guide (link)	GA 5.3	1 pt		LOW	то до
			Deprecated tools justification	GA 5.5	3 pt	Renwei Hu	MEDIUM	IN PROGRESS
						George Wang		
		Development related	Architecture explanation	GA 9.2	3 pt		LOW	то до
			Project demo	GA 9.7	4 pt		HIGH	IN PROGRESS
Detect objects visually (Computer Vision)	CV	Human gesture	Integrate Openpose as a ROS node	CV 3.2	8 pt	George Wang	HIGH	IN PROGRESS
		Face detection	Integrate Openpose as a ROS node	CV 4.2	8 pt	George Wang	MEDIUM	IN PROGRESS
		3D Object detection	Set up depth camera	CV 5.2	5 pt	Renwei Hu	HIGH	IN PROGRESS
			Modify 3D print CAD model	CV 5.3	6 pt	Renwei Hu	HIGH	IN PROGRESS
Interact with the environment arurally	VR	Background research	Create a separate account for refund	VR 1.4	1 pt	All	LOW	IN PROGRESS
(Voice Recognition)								

Potential risks

Code Integration Challenges: Integrating tools like YOLO, Openpose, and ROS2 might lead to unexpected compatibility issues.	Have regular integration tests. Ensure team members are trained or familiar with ROS2 integration
Voice Recognition Inaccuracy: Voice recognition systems might misinterpret commands, leading to unintended actions.	Test in various environments and with different accents. Consider using established voice recognition tools or platforms.
Scope Creep: New features or changes might be introduced mid-sprint, leading to delays and resource overruns.	Implement a strict change management process. Any changes to the sprint should be evaluated for impact and feasibility.

Sprint planning resources

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