Smart Rehri Read-only view, generated on 04 Aug	3 2023																								Instagantt
ACTIVITIES	ASSIGNEE EH START DU	E % W31	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3							Nov 2023 W47 1 12 13 14 15 16 17 18 19 20 21 22								W5 W5 W			23 24 25 26 27 28 29 1		w11 Mar 2024 w12 10 11 12 13 14 15 16 17 18 19 20 21		W14 W15 31 1 2 3 4 5 6 7 8 9 10
Project Initiation:	- 01/Aug 22/ <i>F</i>	ug 0%	Project Initiation:																						
1 O Define project scope nd ol	obj 01/Aug 04/A	ug 0%	Define project scope nd objectives																						
2 Oldentify key stakeholders	- 04/Aug 06/A	ug 0%	Identify key stakeholders																						
3 Set project timelines and r	mi 22/Aug 22/A	ug 0%	Set project timelines and milestones																						
Hardware Setup:			Hardware Setup:																						
5 Select and procure embed			Select and procure embedded platform (e.g., Raspberry Pi) and camera modu	lle																					
6 Assemble and integrate th			Assemble and integrate the camera onto the cart																						
7			Test hardware component for functionlity																						
Computer Vision Developmen					Con	mputer Vision Development:																			
9 Develop code for real-time			Develop code for real-time image capture ar																						
10 Research and select appro				t appropriate computer vision algorithms																					
12 Olimplement image process			Colle		to proceeding techniques for fruit quali	ity analysis																			
13 Test and validate the com				Implement image	ge processing techniques for fruit quali	ity analysis it and validate the computer vision algorit	os.																		
Data Storage and connectivity	· _				163	it and validate the computer vision algorit	13	Data Storage	and connectivity:																
15 Set up a cloud-based serv	*					Set up a cloud-base	server or database for data storag		and connectivity.																
16 Sestablish secure cloud or o									nnectivity from the fruit cart to the serv	ver															
17		<u>·</u>							ata transmission protocols for image a																
Mobile App Development:	- 30/Oct 03/J	an 0%							1 0						Mobile App Developmer	nt:									
19 O Design the user interface	e fo 30/Oct 10/N	ov 0%								Design the user interface for the mobile ap	рр														
20 O Develop front-end and bac	ack 13/Nov 01/E	ec 0%										Develop front-end and back-	end components of the app												
21 O ENJOY WINTER BREAK	- 01/Dec 10/L	ec 0%											ENJOY WINTER BREAK												
22	levi 23/Dec 29/D	ec 0%												Test	ne app on various devices for compa	tibility and usability									
23 Ontegrate the app with the	e cl 01/Jan 03/J	an 0%													Integrate the app with th	ne cloud server for real-time u	updates								
Government Price Validation:	- 01/Jan 19/J	an 0%															Government Price Validation:	:							
25	rn 01/Jan 05/J	an 0%													Create a dataset	of government-approved frui									
26 Oevelop logic for price val	lid 08/Jan 10/J	an 0%														Develop logic for price valid	dation in the mobile app								
27															4		Implement price validation in	the app and test against the datase	t						
Machine learning based sales		<u> </u>																			Machine learning based	sales-analysis:			
29 Collect historical sales dat																	T	lect historical sales data for the spec							
30 Prepare the data for traini																	T F	Prepare the data for training machin							
31																			Implement machin	ne learning algorithms for s					
32 Train and evaluate the mo																					Train and evaluate the m				
Alering Mechanism:	- 24/Feb 01/M																								
34 O Develop an alerting system																						erting system for fruit quality			
35		<u>·</u>																				e alerting mechanism with si			
36 Implement notifications to	- 15/Mar 29/M																					implement notifications to th	ne cart owners mobile device	Into	egrating and testing:
Integrating and testing: 38 Integrate all components																							Integrate all compo	onents of the Intelligent Fruit Cart sy	egrating and testing:
39 Conduct comprehensive to																								comprehensive testing for function	
40 Oldentify and resolve any be																							Conduct		entify and resolve any bugs or issues
identity and resolve any bi	20/Iviai 25/Iv	1 57																						lder	and resolve any bugs of issues