									NUPAR													PHASS THREE										
WBS TASK TITLE	TASK OWNER(S)	PLANNED VS	START DATE	DUE DATE	DURATION IN DAYS	PCT OF TASK COMPLETE	WE	EEK 1	$\mathbf{H}$	WEEK 2	Wi a a a	EX 3	a a a a	WEEK 4		WEEK 5		WEE	EK 6	WEEK 7		WEEK 8	- w	/EEK 9	W	VEEK 10	WEE	K 11	WEEK 12		WE	EK 13
Number		ACTUAL			IN DAYS	COMPLETE	28-At 29-At 30-At	31-Au 1-Sep 2-Sep	d-Sep	6-Sep 8-Sep 9-Sep 10-Se	11-Se 12-Se 13-Se	16-Se	18-Se 19-Se 20-Se	21.5e 22.5e 23.5e	24-Se	3 % % % 23 % % %	30.5 2.0 2.0 30.5 30.5 30.5 30.5 30.5 30.5 30.5 30	4 6	7.0ct 10.0ct	12 6 6	17.00	20 00 12 13 10 10 10 10 10 10 10 10 10 10 10 10 10	2 2 5 2 5 6 2 5 6	28.00.00	30.0c 1.Nov	2-Nov	5-Non 6-Non 7-Non	10.Nc	15. N. N. N. S.	18. Nc 19. Nc	21-Nc 22-Nc	23.N 25.N 25.N 26.N
1 Milestone 1							Mo Tu We	Th Fr Sa S	u Mq Tu	We Th Fr Sa Su	Mq Tu We	Th Fr Sa S	su Ma Tu W	Th Fr Sa	Su Mc 1	Tu We Th Fr	Sa Su Mo T	lu We Tr	h Fr Sa Su Mo Tu i	We Th Fr S	a Su Mc Tu V	e Th Fr Sa	Su Mc Tu We	Th Fr Sa Si	u Ma Tu We	Th Fr	Sa Su Mc Tu We T	h Fr Sa S	u Mq Tu We Th F	Sa Su M	d Tu We	Th Fr Sa Su
1.1 Project Initiation	Farhan, Clement, Khairul	PLANNED ACTUAL	28/08/2023 31/08/2023	31/08/2023 1/9/2023	5 2	100%			H		H	H	$\Pi\Pi$	HF	H	$+\Pi\Pi$	+H	Ħ	HHH	+HF	HH	HH	+HH	$\pm \Pi$	H	H		H	HHH	HF	H	$\blacksquare$
1.1.1 Setting Up Slack	Farhan	PLANNED ACTUAL	28/8/2023 31/08/2023	29/8/2023 1/9/2023	2	100%															HH										Н	+
1.1.2 Setting Up Github Repository	Khairul	PLANNED ACTUAL	1/9/2023 31/08/2023	1/9/2023	1 2	100%															HH										Н	+
1.1.3 Setting Up Github Project Board	Clement	PLANNED ACTUAL	1/9/2023 31/08/2023	1/9/2023	2	100%															+	+				H						+
1.1.4 Setting up Gantt Chart	Farhan	PLANNED ACTUAL	29/8/2023 31/08/2023	1/9/2023	4	100%															+					H						##
1.2 Project Description Analysis	All	PLANNED	2/9/2023	8/9/2023	7	100%												Ħ								H						4#
1.2.1 Analyzing Project Requirements	Gabriel	PLANNED	2/9/2023	6/9/2023	5	100%												Ħ								H						4#
1.2.2 Allocating Team Member's Roles	Jason	PLANNED	3/9/2023	3/9/2023	1	100%																				H						
1.2.3 Researching Project Background	Taufiq	PLANNED	5/9/2023	8/9/2023	4	100%																										
1.2.4 Setting Up Client Meeting	All	PLANNED	6/9/2023	7/9/2023	2	100%																										
1.2.4.1 Preparation for Client Meeting	All	PLANNED	6/9/2023	7/9/2023	2	100%																				ш					ш	
1.2.4.2 Client Meeting	All	PLANNED	8/9/2023	8/9/2023	1	100%																										
1.2.4.3 Finalizing Meeting Minutes and Follow-up Email	Farhan	PLANNED	8/9/2023 8/9/2023	8/9/2023	1	100%																									ш	
1.3 M1 Report Documentation	All	PLANNED	8/9/2023 9/9/2023	8/9/2023 24/9/2023	16	100%																				Ш					ш	
1.3.1 M1 Report Introduction	Gabriel	PLANNED	10/9/2023 9/9/2023	22/9/2023 11/9/2023	13	100%	Ш	$\pm \pm \pm$							Ш	$\pm\pm\pm$	$\pm \pm \pm$	$\pm$			$\pm\pm\pm$	$\pm\pm\pm$	$\pm \pm \pm \pm$		ш	Н		ш	++++	ш	ш	$\pm \pm \pm$
1.3.1.1 M1 Product Scope	Gabriel	PLANNED	10/9/2023 9/9/2023	10/9/2023	3	100%	ш	$\pm \pm \pm$	$^{+}$			ш	ш	ш	ш		ш	Ħ			ш	ш			ш	Н		ш		ш	ш	丗
1.3.1.2 M1 Related Background Literature	Gabriel	PLANNED	10/9/2023 9/9/2023	10/9/2023	3	100%	Ш	$\pm \pm \pm$							Ш		$\pm \pm \pm$	#		$\pm \pm \pm$	+++		$\pm \pm \pm \pm$		ш	Н			$\pm\pm\pm\pm$		ш	$\pm \pm \pm$
1.3.1.3 M1 References and Acknowledgements	Gabriel	ACTUAL PLANNED	10/9/2023 9/9/2023	10/9/2023 11/9/2023	3	100%	Ш	$\pm \pm 1$	Ш				Ш	HE	Ш	+	+	Ш	$\Box$	$\pm \pm 1$	Ш	+	$\pm \pm \pm 1$		HE	Ш		Ш	++++	Ш	ш	##
1.3.2 M1 Report Overall Description	Gabriel, Jason.	ACTUAL PLANNED	10/9/2023 11/9/2023	10/9/2023 16/9/2023	6	100%	Ш	$\pm \pm 1$	Ш				Ш	HE	Ш	+	+	Ш	$\Box$	$\pm \pm 1$	Ш	+	$\pm \pm \pm 1$		HE	Ш		Ш	++++	Ш	ш	##
1.3.2.1 M1 Report Product Overview	Clement	ACTUAL PLANNED	11/9/2023 11/9/2023	16/9/2023 16/9/2023	6	100%	ШТ	ш	Ш				ш	Ш	ш		ш	Ш		ш		ш		ш	ш	Ш		Ш	шш	ш	ш	ш
1.3.2.2 M1 Report Product Functionality	Jason	ACTUAL PLANNED	16/9/2023 12/9/2023	16/9/2023 15/9/2023	4	100%		H	H				ШΕ	HE	ы		H	Ħ	$\coprod \coprod$	$\pm B$	Ш	Ш	$\pm \Box$	H	HЕ	Ш		Ш	ШΠ	H	Ш	H
1.3.2.3 M1 Report Assumptions and Dependencies	Clement	ACTUAL PLANNED	11/9/2023 11/9/2023	13/9/2023 16/9/2023	3 6	100%			+												+++					+						
1.3.3 M1 Report Specific Requirements	Gabriel, Clement,	ACTUAL PLANNED	14/9/2023 16/9/2023	15/9/2023 20/9/2023	2 5	100%			+												+++					+						
1.3.3.1 M1 Report User Interface Requirements	Khairul, Jason Gabriel, Clement	ACTUAL PLANNED	11/9/2023 16/9/2023	16/9/2023 18/9/2023	6	100%		+										-		+	+++					+			++++		+	+
1.3.3.1.1 Manager Dashboard Page	Gabriel	ACTUAL PLANNED	11/9/2023	12/9/2023	3	100%		+											$\blacksquare$	-	HH									H		+
1.3.3.1.2 Manager Staff/Job Allocation Page	Gabriel	ACTUAL PLANNED	11/9/2023 16/9/2023	12/9/2023	2	100%															+					H						
1.3.3.1.2 Manager Statty Job Allocation Page  1.3.3.1.3 Manager Approval Request Page	Gabriel	ACTUAL PLANNED	11/9/2023 16/9/2023	12/9/2023	2	100%															+					H						
1.3.3.1.4 Staff Dashboard Page		ACTUAL PLANNED	11/9/2023 16/9/2023	12/9/2023	2	100%															+					H						
1.3.3.1.4 Staff Dashboard Page 1.3.3.1.5 Staff Personal Schedule Page	Clement	ACTUAL PLANNED	11/9/2023 16/9/2023	12/9/2023 18/9/2023	2	100%																										
1.3.3.1.6 IT Administrator Page	Clement	ACTUAL PLANNED	11/9/2023 16/9/2023	12/9/2023 18/9/2023	2	100%																										111
		ACTUAL PLANNED	11/9/2023	12/9/2023	2																										ш	
1.3.3.2 M1 Report Functional Requirements 1.3.3.3 M1 Report Use Case Model	Jason, Khairul	ACTUAL	12/9/2023	15/9/2023	4	100%																				H						
		ACTUAL	12/9/2023	18/9/2023	7																					Ħ					ш	$\pm$
1.3.3.4 M1 Report Non-functional Requirements	Jason, Khairul	ACTUAL	12/9/2023	15/9/2023	4	100%					-															Ħ					ш	##
1.3.3.4.1 M1 Report Performance Requirements	Khairul	ACTUAL	12/9/2023	15/9/2023	4	100%												#														
1.3.3.4.2 M1 Report Safety and Security Requirements	Jason	ACTUAL	18/9/2023	19/09/2023	2	100%												#														
1.3.3.5 M1 Activity Diagram	Clement, Gabriel	ACTUAL	16/9/2023	16/9/2023	1	100%																										
1.3.4 M1 Report Project Estimation and Plan	Farhan, Taufiq	ACTUAL	19/9/2023	22/9/2023	4	100%																										
1.3.4.1 M1 Report Software Estimation	Taufiq	ACTUAL	19/9/2023	20/9/2023	2	100%																										
1.3.4.2 M1 Report Project Management	Farhan	ACTUAL	19/9/2023	22/9/2023	4	100%	Ш	111							Ш			#								ш		Ħ		Ħ	ш	##
1.3.5 M1 Report Appendix A - Use Case Descriptions	Taufiq	ACTUAL	19/9/2023	20/9/2023	2	100%	Ш	$\pm \pm \pm$	+			$\pm \pm$			ш		$\pm \pm$	H		$\pm \pm \pm$					$\pm \pm$	Ш					H	$\pm \pm$
1.3.6 M1 Report Appendix B - Data Dictionary	Clement	PLANNED ACTUAL	22/9/2023 16/9/2023	23/9/2023 16/9/2023	1	100%	ш	ш	世		ш		$\pm\pm\pm$		ш		ш	世		$\pm \pm \pm$	ш	ш	ш		ш	ш	шш	ш	шш	ш	ш	$\pm\pm\pm$
2 Milestone 2	T	PLANNED	12/10/2023	14/10/2023	3																											
2.1 Component Diagram  User Authenticcation. Account Management and Database	Clement, Khairul	ACTUAL PLANNED	12/10/2023	14/10/2023	3	100%		+	+			+	##		H		+	Ħ					$\pm 11$	+	##	H				H	H	##
Z.1.1 Components	Khairul	ACTUAL	12/10/2023	14/10/2023	3	100%		$\pm$	#			+	+		H	+++	$\pm$	#				$\Box$			Ħ	Ħ		$\Box$	++++	Ħ	Ħ	##
Management and Teaching Schedule Components	Clement	ACTUAL	12/10/2023	14/10/2023	3	100%			#			+	+		H		$\pm$	#							ĦĦ	Ħ		+	++++	Ħ	Ħ	##
2.2 Class Diagram	Clement, Taufiq	ACTUAL	15/10/2023	16/10/2023	2	100%	HH	##				##	##		H			#					$\pm \pm \pm$	$\pm$	##	Н			++++	##	Ħ	##
2.2.1 Boundary Classes	Taufiq	ACTUAL	15/10/2023	16/10/2023	2	100%	HH	$\pm \pm \pm$				$\pm$	##			$\pm\pm\pm$	##	#		##		$\pm \pm \pm$	$\pm \pm \pm$		##	H			+++	Ħ	Ħ	##
2.2.2 Control Classes	Clement	ACTUAL	15/10/2023	16/10/2023	2	100%	Ш	##	#			$\pm$	##		ш		$\pm$	#		$\pm \pm \pm$		ш			##	Ħ		##		ш	ш	##
2.2.3 Entity Classes	Clement	ACTUAL	15/10/2023	16/10/2023	2	100%	Ш	111					$\pm \pm \pm$	ĦĦ	Ш			#								ш		Ħ		Ħ	ш	##
2.2.4 Linking of Classes	Taufiq	ACTUAL	15/10/2023	16/10/2023	2	100%		111					$\pm \pm \pm$	ĦĦ	Ш			#								ш		Ħ		Ħ	ш	##
2.3 Sequence Diagram	Farhan, Gabriel	ACTUAL	17/10/2023	20/10/2023	6	100%	Ш	$\pm \pm \pm$	+									#								ш					H	##
2.3.1 UC-8 Sequence Diagram (Prominent)	Farhan	ACTUAL	18/10/2023	20/10/2023	6	100%	Ш	$\pm \pm \pm$	#					ш	ш			#		$\pm \pm \pm$					##	Н		ш		ш	H	##
2.3.2 UC-12 Sequence Diagram (Prominent)	Gabriel	PLANNED ACTUAL	18/10/2023 17/10/2023	20/10/2023 22/10/2023	3 6	100%	Ш	$\pm \pm \pm$					$\pm \pm \pm$		ш	$\pm\pm\pm$	$\pm \pm \pm$	$\pm$							ш	Н		ш	++++	ш	ш	丗
2.4 M2 Report Documentation	All	PLANNED ACTUAL	20/10/2023 17/10/2023	28/10/2023 26/10/2023	9 10	100%	Ш	$\pm \pm$	$\pm$		Ш	$\pm$	##	H	Ш	$\pm\pm\pm$	$\pm \pm$	#		$\pm \pm \pm$	╁				ш	Н		ш	++++	ш	ш	$\pm \pm$
2.4.1 M2 Report Introduction	Clement	PLANNED ACTUAL	20/10/2023 23/10/2023	25/10/2023 23/10/2023	6 1	100%	НН	$\pm \pm \pm$	+			$\pm$	$\pm \pm \pm$	++	Ш	$\pm\pm\pm\pm$	$\pm \pm \pm$	Ш	+++++	$\pm \pm \pm$	+++				++	Ш		H	++++	H	Н	$\pm \pm$
2.4.2 M2 Report Changes in Requirements	Jason	PLANNED ACTUAL	21/10/2023 20/10/2023	25/10/2023 22/10/2023	3	100%		ш	世			ш	Ш				Ш	╁		Ш					Ш	Ш		Ш		Ш	Ш	$\pm \pm$
2.4.3 M2 Report Software Design	Gabriel, Jason, Farhan	PLANNED ACTUAL	22/10/2023 17/10/2023	26/10/2023 26/10/2023	10	100%	Ш	Ш	Ħ		Ш	ш	Ш	Ш			Ħ	Ħ		╆				ш	Ш	Ш		Ш		Ш	Ш	$\pm H$
2.4.3.1 M2 Report UML Class Diagram	Farhan	PLANNED ACTUAL	22/10/2023 17/10/2023	26/10/2023 20/10/2023	5 4	100%		ШŦ	Æ			F	ш	H	Н			Æ		_F					ШE	Ħ		Ħ		ш	H	477
2.4.3.2 M2 Report Component Diagram	Gabriel	PLANNED ACTUAL	22/10/2023 22/10/2023	26/10/2023 25/10/2023	5	100%	HH	$\pm$	₽	шН							$\pm H$	F		$\pm H$						Ħ		H				$\pm \pm$
2.4.3.3 M2 Report Sequence Diagram	Jason	PLANNED	22/10/2023	26/10/2023	5	100%	ш		ш					LTI	ш		$\Box$		$\perp\Box\Box\Box$	ш	ш					ш		ш			ш	$oldsymbol{oldsymbol{\sqcup}}$

1		ACTUAL	20/10/2023 25/10/2023 6		11111		1.1.1.1	1.1.1	1111	1 1 1 1	1.1.1									1 1 1 1	1.1.1	1.1.1	1 1 1		1.1.1	$\overline{}$	
2.4.4	M2 Report Updated Project Plan	Farhan PLANNED ACTUAL	22/10/2023 28/10/2023 7	100%																							
2.4.5	M2 Report Appendix A - Updated Use Case Description	Jason PLANNED	24/10/2023 28/10/2023 5 20/10/2023 22/10/2023 3	100%																						$\blacksquare$	
2.4.6	M2 Report Appendix B - Overall Class Diagram		24/10/2023 28/10/2023 5	100%																						$\blacksquare$	
2.4.7	M2 Report Appendix C - Data Dictionary	Clement PLANNED		100%																							
3	Milestone 3	ACTUAL	23/10/2023   23/10/2023   1																							-	
3.1	Architecture Design	Khairul PLANNED	30/10/2023 2/11/2023 4	100%			ттт	TIT	ттт				TTTT	ттт		ттт	TTTT	ТТТ					ПП			ППТ	
_	-	ACTUAL	30/10/2023 2/11/2023 4																								
3.2	Detailed Design	Taufiq, Clement ACTUAL	3/11/2023 6/11/2023 4 4/11/2023 5/11/2023 2	100%			+++		+++								+++				+++					+++	+++++
3.2.1	Design Method 1 - Strategy Pattern	Clement PLANNED ACTUAL	3/11/2023 5/11/2023 3 3/11/2023 5/11/2023 3	100%		=	+		$\Box$		$\pm \pm \pm$		$\blacksquare$								+++					$\blacksquare$	
3.2.2	Design Method 2 - Factory Pattern	Taufiq PLANNED	4/11/2023 6/11/2023 3 4/11/2023 5/11/2023 2	100%																						$\blacksquare$	
3.3	Final Prototype	Gabriel, Clement PLANNED	4/11/2023 7/11/2023 4 4/11/2023 7/11/2023 4	100%																							
3.3.1	Manager Dashboard Page	Gabriel PLANNED	4/11/2023 5/11/2023 2 4/11/2023 5/11/2023 2	100%														Ħ								##	
3.3.2	Manager Staff/Job Allocation Page	Gabriel PLANNED	4/11/2023 5/11/2023 2 4/11/2023 5/11/2023 2 4/11/2023 5/11/2023 2	100%												ш		ш						ш			
3.3.3	Manager Approval Request Page	Clement PLANNED	5/11/2023 6/11/2023 2	100%										Ш		Ш		ш								ш	
224	Staff Dashboard Page	Clement PLANNED	5/11/2023 6/11/2023 2 5/11/2023 6/11/2023 2	100%		+		+++			$\pm$						++++		+++		+++					+++	
_		ALTUAL	5/11/2023 6/11/2023 2 6/11/2023 7/11/2023 2																							ш	
3.3.5	Staff Personal Schedule Page	Clement	6/11/2023 7/11/2023 2	100%																						ш	
3.3.6	IT Administrator Page	Gabriel PLANNED ACTUAL	6/11/2023 7/11/2023 2 6/11/2023 7/11/2023 2	100%			+++	+	++++	+++	+++			+++	++++						+++	+++				+++	
3.4	Software Testing	Farhan, Gabriel, PLANNED  Clement ACTUAL	8/11/2023 11/11/2023 4 8/11/2023 14/11/2023 7	100%														-								$\blacksquare$	
3.4.1	Setting Up Black Box Testing	Farhan, Gabriel PLANNED	8/11/2023 10/11/2023 3 8/11/2023 11/11/2023 4	100%																							
3.4.1.1	Use Case 12: Allocate Job Assignments - Decision Table	Farhan PLANNED		100%																							
3.4.1.2	Use Case 12: Allocate Job Assignments - System Test 1	Farhan PLANNED	8/11/2023 10/11/2023 3 8/11/2023 11/11/2023 4	100%																							
3.4.1.3	Use Case 12: Allocate Job Assignments - System Test 2	Farhan PLANNED		100%																						ш	
3.4.1.4	Use Case 12: Allocate Job Assignments - System Test 3	Gabriel PLANNED		100%																						ш	
3.4.1.5	Use Case 12: Allocate Job Assignments - System Test 4	Cabulat PLANNED	8/11/2023 10/11/2023 3	100%																						ш	
	Use Case 12: Allocate Job Assignments - System Test 5	ACTUAL PLANNED		100%			+++	+				+				+++	++++				+++					+++	
		ACTUAL	8/11/2023 10/11/2023 3 9/11/2023 11/11/2023 3					+					+++													+++	
3.4.2	Setting Up White Box Testing	Clement	12/11/2023 14/11/2023 3	100%																						ш	
3.5	M3 Report Documentation	All PLANNED ACTUAL	12/11/2023 24/11/2023 13 16/11/2023 23/11/2023 8	100%														ш				ш	ш				
3.5.1	M3 Introduction	Clement PLANNED ACTUAL	12/11/2023 14/11/2023 3 16/11/2023 16/11/2023 1	100%	+HH	HH	$+H\overline{+}$	+H	$++\Box$	+H	+	+HH	+++	₩	$+++\mp$	HA	+HT	HF	HH	+++	HF	HF	HE	HA		++7	++++
3.5.1.1	M3 References and Acknowledgments	Clement PLANNED	12/11/2023 14/11/2023 3	100%																						##	+HH
3.5.2	M3 Software Design Documentation	Jason PLANNED	15/11/2023 18/11/2023 4 15/11/2023 18/11/2023 4	100%									+			ш											####
3.5.2.1	M3 Architecture Design Documentation	Khairul PLANNED	15/11/2023 18/11/2023 4 15/11/2023 18/11/2023 4	100%																							#####
3.5.2.2	M3 Detailed Design Documentation	Taufig PLANNED	15/11/2023 18/11/2023 4	100%														ш									
	M3 Testing Documentation	Farhan, Gabriel, PLANNED	19/11/2023 20/11/2023 2 19/11/2023 21/11/2023 3	100%	++++		++++		+++	+++		+	++++		++++		+++	H				H					
	M3 Black Box Testing Documentation	Jason ACTUAL Farhan PLANNED	16/11/2023 21/11/2023 6 19/11/2023 21/11/2023 3	100%			177		+TT	$+\Pi\Pi$	H		+TTT	$+ \Box$	$+\Pi\Pi$	H	+HH	H			+	+ T =	H	H			
		ACTUAL	16/11/2023 19/11/2023 4 19/11/2023 21/11/2023 3				+HH						+++														
	M3 White Box Testing Documentation	Jason ACTUAL	19/11/2023 21/11/2023 3	100%												ш							ш				
3.5.4	M3 Project Prototype & Wireframes Documentation	Gabriel PLANNED ACTUAL	22/11/2023 23/11/2023 2 21/11/2023 22/11/2023 2	100%				ш	ш	ш				ш		ш		ш		ш		ш	ш	ш	ш		
3.5.5	M3 Project Management	Farhan PLANNED ACTUAL	19/11/2023 24/11/2023 6 20/11/2023 23/11/2023 4	100%		H	+ HH	Ħ	+TH	$\pm H$	H	+ T + T	+	H	$+\Pi\Pi$	H	+	H	HH	H	H	H	H	H			