TERM PROJECT - MILESTONE 2

SENG2020 - SOFTWARE QUALITY

DATE OF SUBMISSION: 2021-11-11

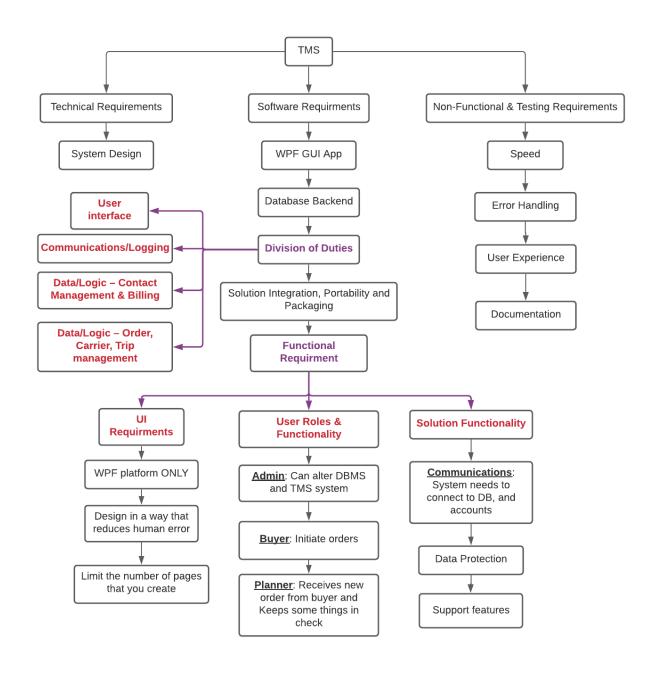
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1 WORK BREAKDOWN STRUCTURE DIAGRAM + WBS DICTIONARY

1.1 WORK BREAKDOWN STRUCTURE DIAGRAM



1.2 WORK BREAKDOWN STRUCTURE DICTIONARY

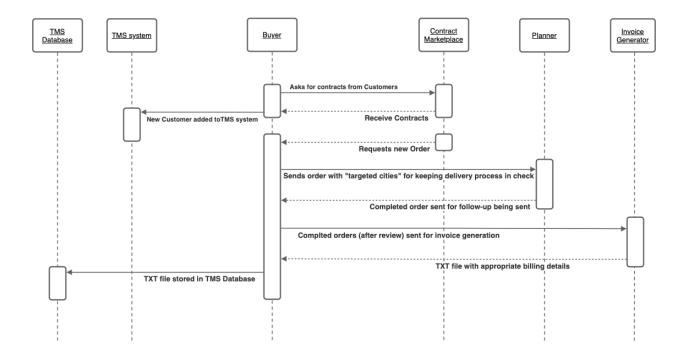
Level	Task Number	Task Owner	Task Name	Description	Dependancy	Resources Needed	Start Date	Due Date
1	1		TMS	All components required to specify the design, creation, and tesing of the TMS.				
2	1.1	Mahmood Al- Zubaidi	Technical Requirements	TMS solution prototype which allows OSHT to manage the order creation, management and billing process for the company.	TMS Requirements Access	TMS Requirements	10/18/2021	10/22/2022
2	1.2	Briana Burton	Software Requirements	WPF GUI based Application using MySQL database.	TMS Requirements Access	TMS Requirements	10/18/2021	10/22/2021
2	1.3	Nawriz Ibrahim	Non-Functional & Testing Requirements	Desired characteristics for the TMS solution which are non-mandatory.	TMS Requirements Access	TMS Requirements	10/18/2021	10/22/2021
3	1.1.1	Sunraj Sharma	System Design	Mandatory TMS communication to database.	Software	Dev Team	11/03/2021	11/10/2021
3	1.2.1	Mahmood Al- Zubaidi	WPF GUI App	WPF GUI based application.	Software Design	WPF Application	11/03/2021	11/10/2021
3	1.3.1	Sunraj Sharma	Speed	TMS communication is efficient to and from.	Software Design	Unit Tests	11/03/2021	11/10/2021
4	1.2.1.1	Nawriz Ibrahim	Database Backend	Integration of mySQL database.	MySQL Design	MySQL	11/10/2021	11/17/2021
4	1.3.1.1	Briana Burton	Error Handling	The system should take steps to handle all errors without breaking execution of the program and avoid losing entered, validated data and/or transactions.	Software Testing	Unit Tests	11/10/2021	11/17/2021
5	1.2.1.1.1	Mahmood Al- Zubaidi	Division of Duties	Each team member to take lead in specific areas.	Communication Management	Communication Manager	11/10/2021	11/17/2021
5	1.3.1.1.1	Nawriz Ibrahim	User Experience	System provides smooth workflow that minimizes handling time and actions to enter data, provides reasonable number of steps to path through to any function in the solution, providing default or recommended and helps prevent human error by limiting free-form data entry when sensible to do so.	Software Design	UX Designer	11/10/2021	11/17/2021
6	1.2.1.1.1	Briana Burton	User Interface	UI should be intuitive to use	Interface Design	UI Designer	11/17/2021	11/24/2021
6	1.2.1.1.1.2	Nawriz Ibrahim	Communications/Logging	Ability to target IP address and ports for all DBMS communication.	Software Design	Database	11/17/2021	11/24/2021
6	1.2.1.1.1.3	Sunraj Sharma	Data/Logic - Contact Management & Billing	TMS solution to include logic to appropriatley handle billing and contact management.	Logic Implementation	Dev Team	11/17/2021	11/24/2021
6	1.2.1.1.1.4	Sunraj Sharma	Data/Logic - Order, Carrier, Trip Management	TMS splution to include logic to appropriately handle management of orders, carriers, and trips.	Logic Implementation	Dev Team	11/17/2021	11/24/2021
6	1.2.1.1.1.5	Mahmood Al- Zubaidi	Solution Integration, Portability and Packaging	and tested as a compiled, executable application. Prototype design solution should have the future changes in mind.		Dev Team, Unit Tests		11/24/2021
6	1.3.1.1.1	Briana Burton	Documentation	TMS prototype to be delivered fully documented and code commented.	Code Commentation	Dev Team	11/20/2021	11/24/2021
7	1.2.1.1.1.5.1	Nawriz Ibrahim	Functional Requirements	User Interface Requirements, user Roles and Related Functionality, and Solution Functionality Requirements.	Software Testing	Dev Team, TMS Requirements, Unit Tests	11/20/2021	11/30/2021

1.2 WORK BREAKDOWN STRUCTURE DICTIONARY CONT.

1.2.1.1.1.5.1.1	Briana Burton	UI Requirements	UI should be intuitive, UI to	UI Design and	UI Designer, TMS	11/20/2021	11/30/2021
1.2.1.1.1.5.1.1	Briaria Burton	or requirements	be developed in WPF,	Access to TMS	Requirements	11/20/2021	11/30/2021
			minimize human error, and	Requirements	Requirements		
			have workflow accomplished	nequirements			
			in few steps.				
1.2.1.1.1.5.1.2	Sunraj Sharma	User Roles & Functionality	Specific functions realting to	Access to User	Dev Team, Unit Tests	11/20/2021	11/30/2021
1.2.1.1.1.3.1.2	Sum aj Smarma	oser noies a ranctionality	user roles: Admin, Buyer, and		Dev ream, once rests	11/20/2021	11/30/2021
			Planner.	System Testing			
1.2.1.1.1.5.1.3	Briana Burton	Solution Functionality	Solution must be able to	System Design	Dev Team, Unit Tests	11/20/2021	11/30/2021
		,	connect to remotely hosted	and System		,,	,,
			MySQL databases, access	Testing			
			should be done through a				
			named account and				
			password, and The solution				
			must generate log files.				
1.2.1.1.1.5.1.1.1	Mahmood Al-	WPF Platform ONLY	Ensure that the application is	System Design	WPF Application	11/20/2021	11/30/2021
	Zubaidi		created using WPF platform	- y stam 2 co.g.:		11,10,1011	11,00,1011
			ONLY.				
1.2.1.1.1.5.1.2.1	Nawriz Ibrahim	Admin	Can alter DBMS and TMS	Functionality of	Dev Team	11/24/2021	12/04/2021
11212121313121212		/	System.	User Roles	Dov rouni	11/2:/2021	12,0 1,2021
1.2.1.1.1.5.1.3.1	Sunraj Sharma	Communications	Solution to connect to	Database Design	MySQL Database,	11/24/2021	12/04/2021
			remotely hosted MySQL	and Testing	Dev Team		
			databases using specific				
			named account and				
			password.				
1.2.1.1.1.5.1.1.1.1	Briana Burton	Human Error Reduction Design	Steps are to be taken to	Appropriate WPF	UI Designer, UX	11/24/2021	12/04/2021
			minimize the opportunity for	Design and	Designer		
			human data entry errors.	Testing			
1.2.1.1.1.5.1.2.1.1	Sunraj Sharma	Buyer	Initiate orders.	Functionality of	Dev Team	11/24/2021	12/04/2021
				User Roles			
1.2.1.1.1.5.1.3.1.1	Nawriz Ibrahim	Data Protection	Access to MySQL Databases	Software Design	MySQL Database,	11/24/2021	12/04/2021
			to be done through a named		Dev Team		
			account and password that is				
			not Root-enabled.				
1.2.1.1.1.5.1.1.1.1	Mahmood Al-	Page Limitation	Ensure that each role's	Software Design	Dev Team	11/24/2021	12/04/2021
	Zubaidi		function an be accomplished	and Testing			
			on 1 screen; Reduce amount				
			of paging away to different				
			'screens' or the number of				
			pop-up dialogue boxes.				
1.2.1.1.1.5.1.2.1.1.1	Briana Burton	Planner	Planner has the ability to	Functionality of	Dev Team	11/24/2021	12/04/2021
	2		recive new order from buyer	User Roles			, 0 .,
			and keep some things in	111. 110.00			
			check.				
1.2.1.1.1.5.1.3.1.1.1	Mahmood Al-	Support Features	Solution must generate	System Design	Log Files	11/24/2021	12/04/2021
1.2.1.1.1.3.1.3.1.1.1	Zubaidi	Support Features	usable log files in the event of		LOG FIICS	11/24/2021	12/04/2021
	Zubalui		an issue within the code.	and recupack			
			an issue within the code.				

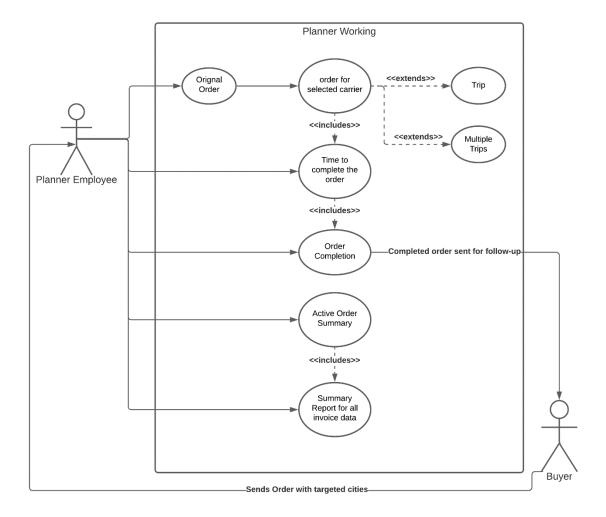
2 SEQUENCE DIAGRAM FOR BUYER CREATES ORDER

LINK TO DIAGRAM



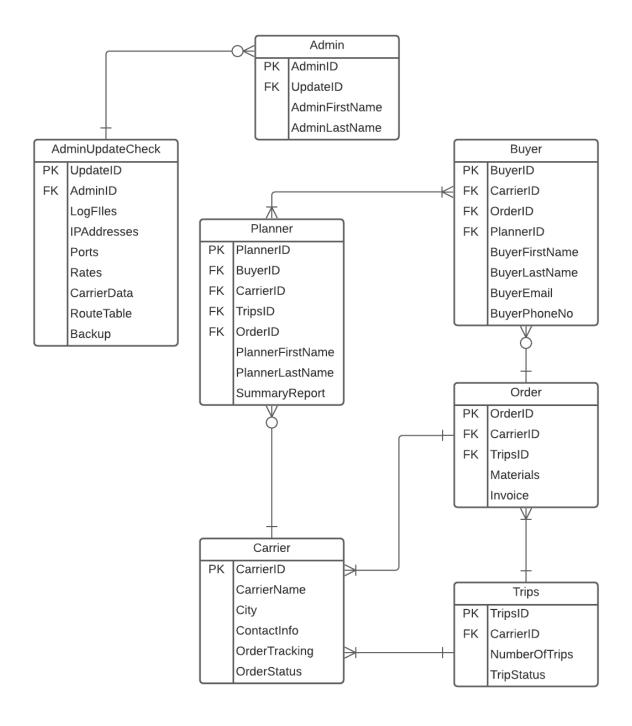
3 USE CASE DIAGRAM FOR THE PLANNER ROLE

LINK TO DIAGRAM



4 SCHEMA DIAGRAM FOR TMS SOLUTION'S DATABASE

LINK TO DIAGRAM



5 CLASS DIAGRAM FOR TMS SOLUTION

