INTE 34242-System Design Project

System Requirements Agreement-2019

System Requirements Summary

Include the order on priority (H-High, M-Moderate, L-Low),

Mandatory or Optional (M/O),

Weight (H- High, M-Moderate, L-Low).

Functional Requirements

Requirement		Priority H/M/L	M/O	Weight H/M/L
1.Shall be able to login and log out the system with necessary access levels		H	M	H
2. Shall be able to create and update user profiles (for admin, suppliers, pharmacist and in-charge of units)		H	M	H
3. Shall be able to view current medicine stocks available in the inventory		H	M	H
4. Shall be able to receive new medicine stocks to the inventory		H	M	H
	4.1 Shall be able to order new medicine stocks from suppliers	H	M	H
	4.2 Shall be able to accept new medicine stocks supplied by the supplier	H	M	H
	4.3 Shall be able to send the estimates to supplier for the upcoming year	H	M	H
	4.4 Shall be able to return quality failure medicine stocks back to supplier	H	M	H
	4.5 Shall be able to detect when re-ordering is required	H	M	H
5. Shall be able to distribute medicines from the inventory		H	M	H
	5.1 Shall able to accept orders for medicine from every unit of the hospital	H	M	H
	5.2 Shall able to issue ordered medicine quantities to the units	H	M	H

	5.3 Shall be able to accept quality failure medicine stocks back to the inventory	H	M	H
6. Shall be able to highlight medicine stocks which are about to expire soon (1year, 6 months, 3 months)		H	M	H
7. Shall be able to generate analytical reports to assist in decision making(expired medicine list , quality failure medicine list, stock positioning report and monthly consumption report)		H	M	H
8. Shall be able to prepare estimates of medicine quantities required for upcoming year		H	M	H
9. Shall be able to detect temperature and humidity of the stores(warehouse)		H	M	H
	9.1 Shall able to observe changes in temperature and humidity	H	M	H
	9.2 Shall be able to generate warnings if any change occur in temperature or humidity	H	M	H
10.Shall be able to send analytical reports and estimates to the administration		H	M	H

Data view :-

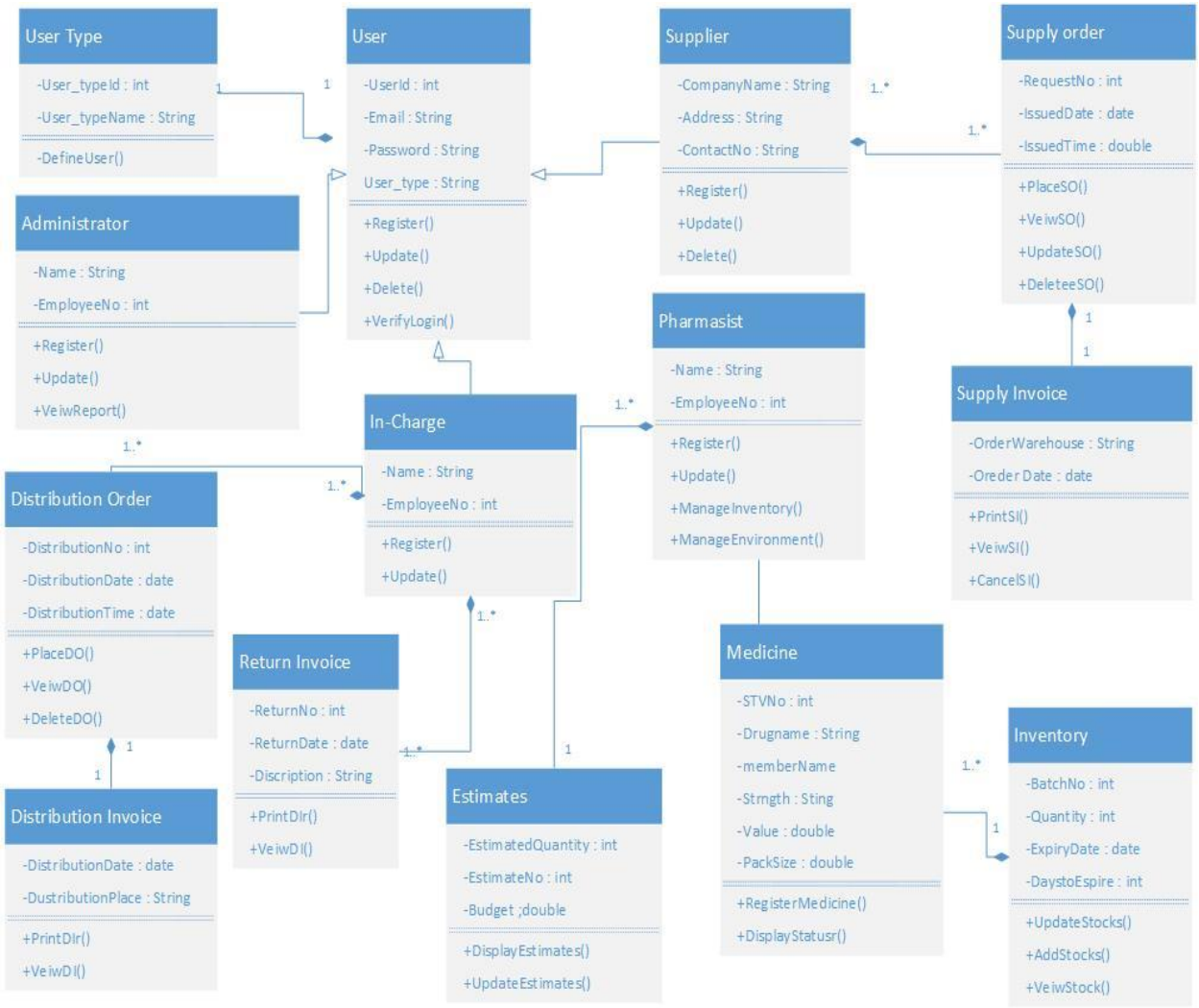
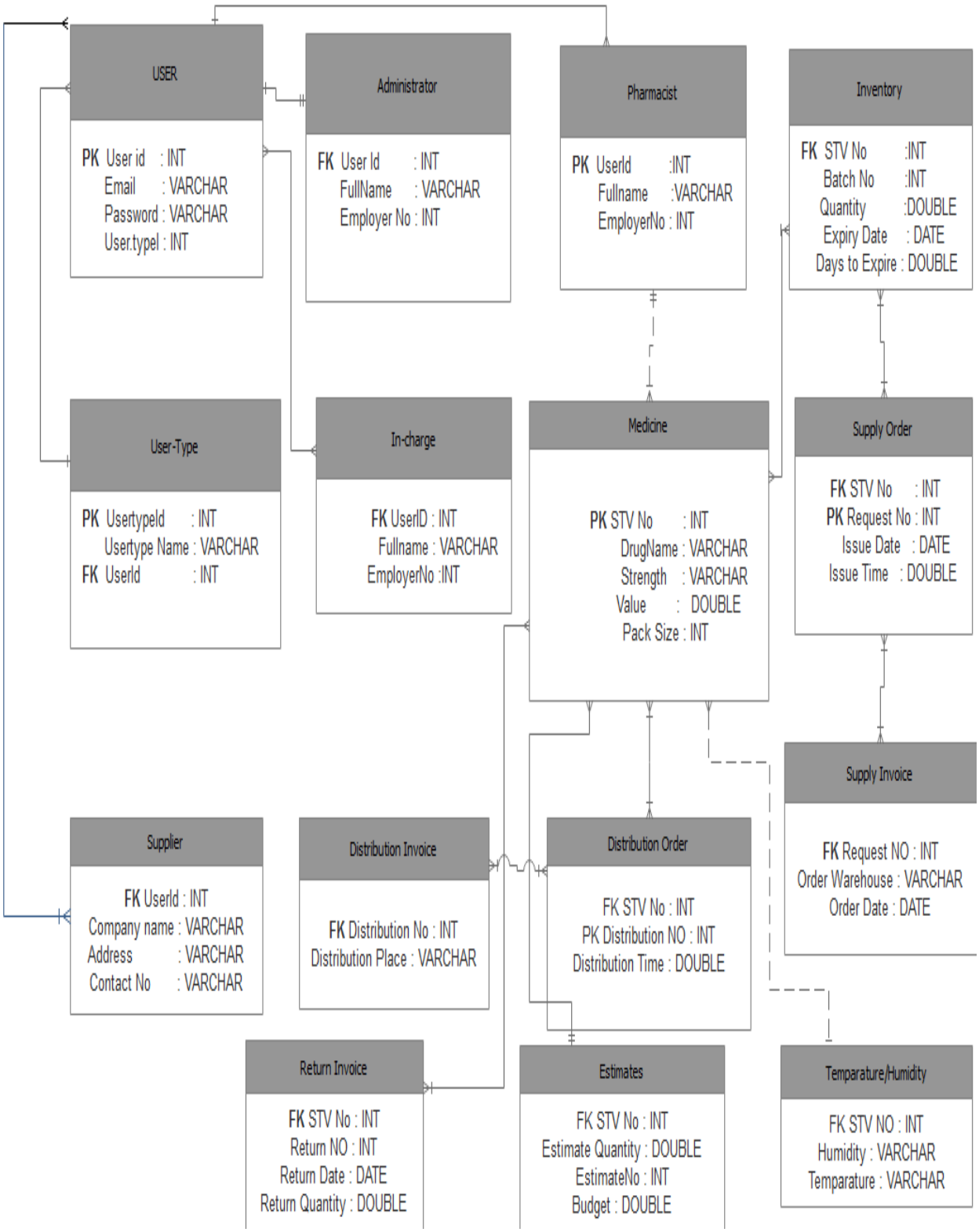
STV no. (this is like id)	Medicine type	Medicine name	Strength	Pack Size	Unit value	Batch no.	Quantity	Expiry date	Days to expire

Reports:-

- expired medicine list – list of medicine which expired within the month
- quality failure medicine list - list of medicine which return back due to quality failure within the month
- stock positioning report – Available medicine stocks during the month
- monthly consumption report – medicine quantities distributed throughout the hospital

Non - Functional Requirements

Requirements	Priority H/M/L	M/O	Weight H/M/L
1. Shall be able to speed up the supply chain effectively	H	M	H
2. Shall be able to have user friendly interfaces	H	M	H
2. Shall be able to include validations and security aspects	M	M	L
3. Shall be able to update 24/7	M	M	M
4. Should be able to use the existing resources efficiently	M	O	L



Database Design :-