Windows Application Project
Using C# & MS SQL
Project Name: Stock Management System (SMS)

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Class Design

Category.cs	
+ int	Id { }
+ string	Name { }

Company.cs	
+ int	Id { }
+ string	Name { }

Item.cs	
+ int	Id { }
+ int	CategoryId { }
+ int	CompanyId { }
+ string	Name { }
+ int	ReorderLevel { }
+ int	Quantity { }

Stock.cs	
+ int	Id { }
+ int	ItemId { }
+ int	ReorderLevel { }
+ int	AvailableQuantity { }
+ int	Quantity { }

SellsDate.cs	
+ string	From { }
+ string	To { }

User	
+ string	Name { }
+ string	Password { }

StatusEnum.cs
Sale = 1
Damage
Lost

Table Design

Categories	
Id (int)	Name (varchar)
1	cat_name1
2	cat_name2

Companies	
Id (int)	Name (varchar)
1	company_name1
2	company_name2

Id (int)	CategoryId (int)	CompanyId (int)	Name (varchar)	ReorderLevel (int)
1	1	1	item1	5
2	2	1	item2	10

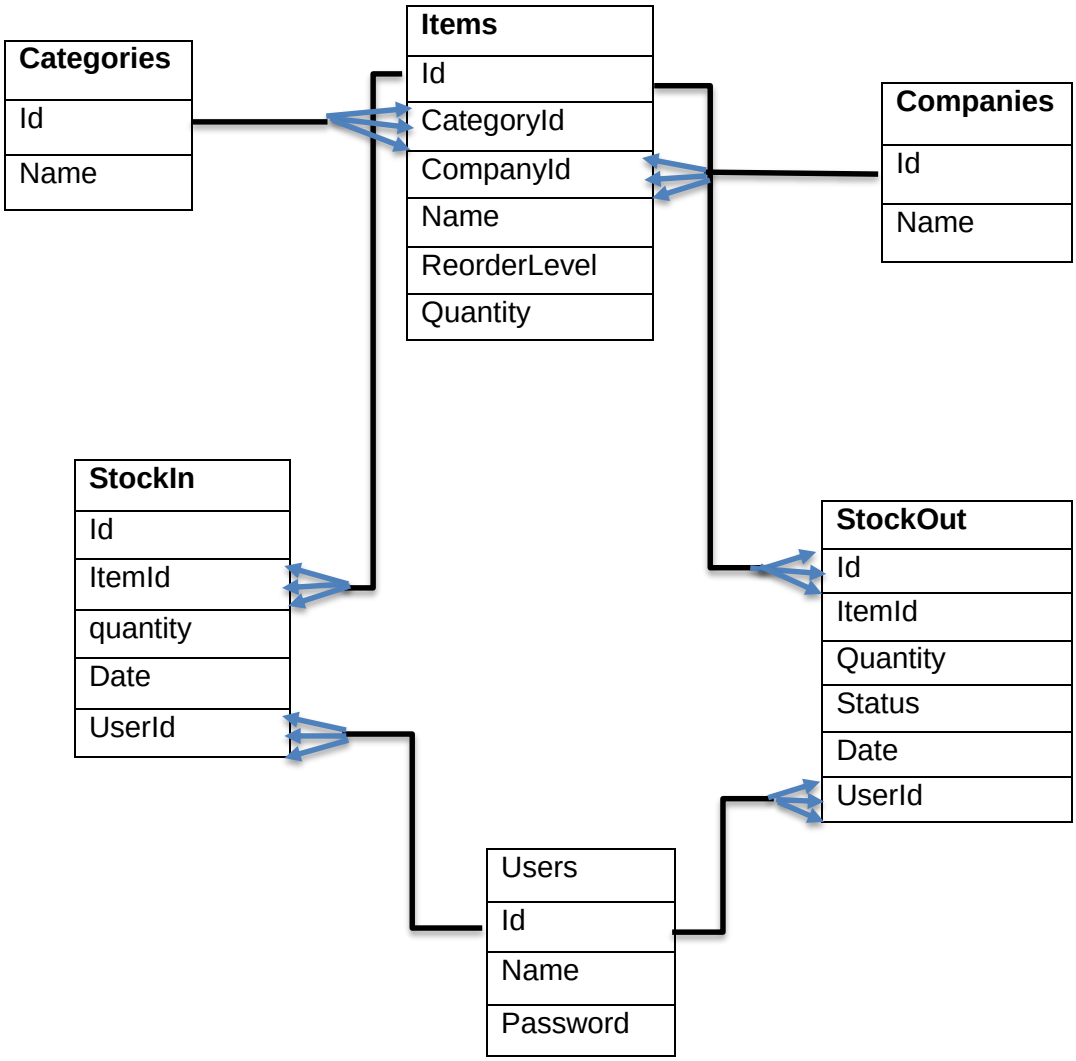
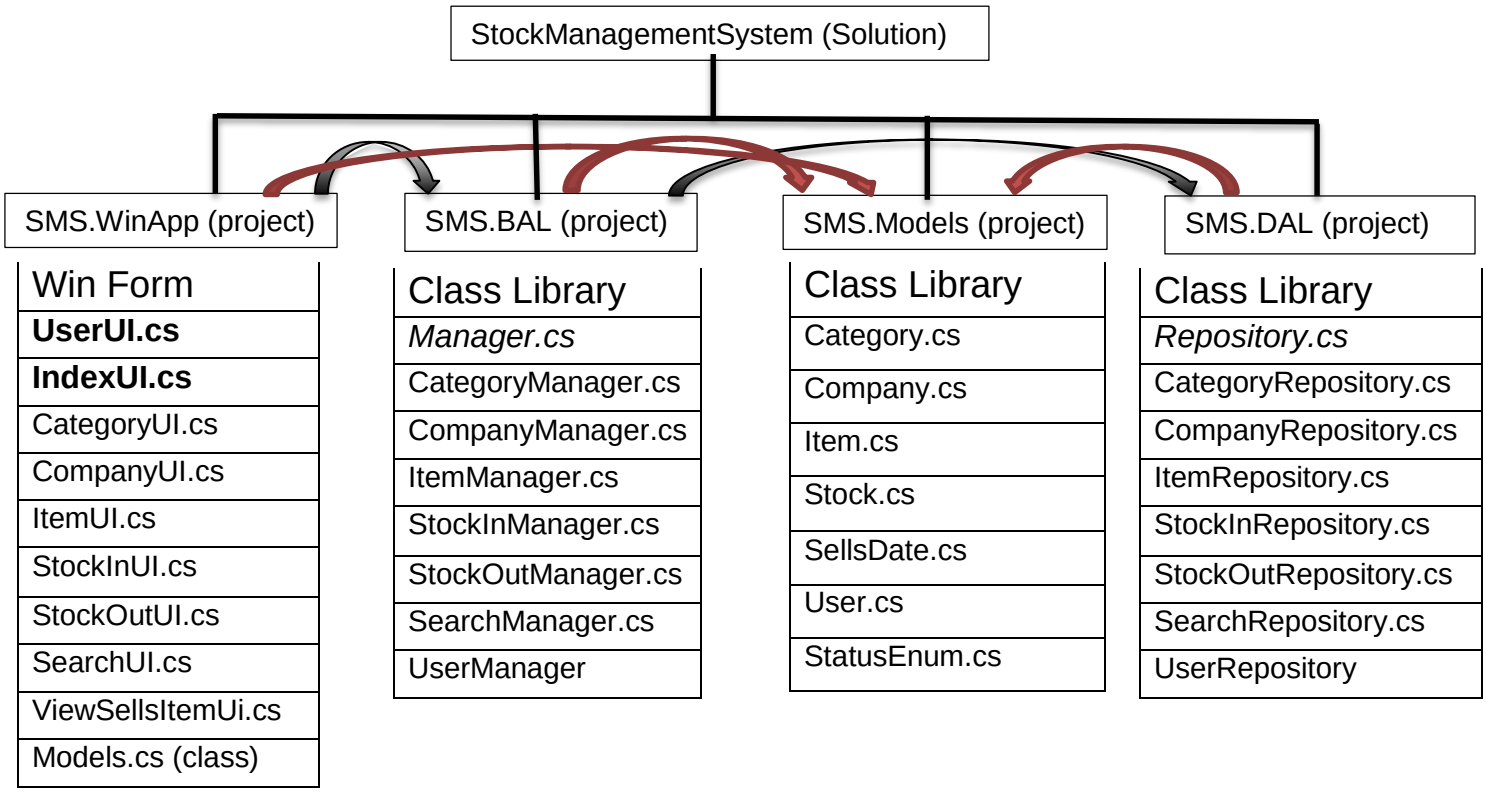
StockIn				
Id (int)	ItemId(int)	Quantity (int)	Date	UserId
1	2	7	2018-04-26	1
2	1	12	2018-04-27	1
3	2	4	2018-04-28	2
4	1	5	2018-04-29	2

Inventory		
Id	ItemId	Quantity
1	5	17

StockOut					
Id (int)	ItemId (int)	Quantity	Sataus	Date	UserId
1	1	12	1	2018-04-28	1
2	2	25	2	2018-04-29	2
3	3	18	3	2018-04-30	1

Users		
Id (int)	Name (varchar)	Password (varchar)
1	admin	13579
2	moderator	2468

E-R Diagram


Categories
Id
Name
Items
Id
CategoryId
CompanyId
Name
ReorderLevel
Quantity
Companies
Id
Name
StockIn
Id
ItemId
quantity
Date
UserId
StockOut
Id
ItemId
Quantity
Status
Date
UserId
Users
Id
Name
Password

Program Structure