System Vision Document

Problem Description

Maret Sofia has her own business and she needs a website to help her manage her business. Currently she uses Magento CMS but which doesn't offer much help in inventory management. This system should be able to provide reports on what have been sold and insights regarding what blocks should be prepared.

System Capacities

- Keep track of the inventory on her quilt blocks
- Able to generate reports in terms of weeks
- Record sales of kits and blocks
- Update the values of system
- Provide insights of stock level
- Connecting via WIFI to transmit data
- Communicating with Magento

Application Benefits

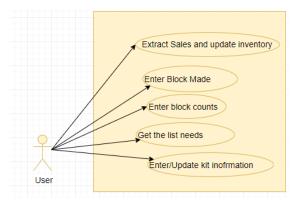
- A systematic platform to manage her business
- Facilitate aunt's decision makings on material preparation, etc.

I think One System is enough.

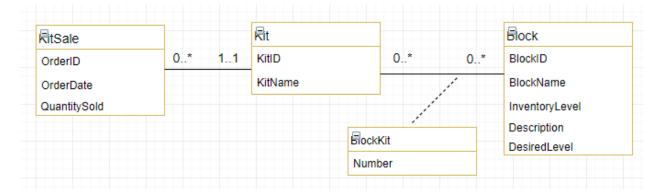
A list of user cases

Use Case	Description
Extract Sales and update inventory	Maret would see sales and check inventory on a regular basis
Enter block made	Maret would know how many block was sold Monday
Enter block counts	Maret would know the number of blocks in inventory
Get the list needs	Maret wants to know the list of products she should buy
Enter/update kit information	Record or update kit information

User case diagram



Domain class diagram



CRUD

Use Case	Kit	Block	BlockKit	KitSale
Extract Sales and update	R	U		CR
inventory				
Enter block made		RU	R	
Enter block counts		RU		
Get the list needs		R		
Enter/update kit information	CU		CU	

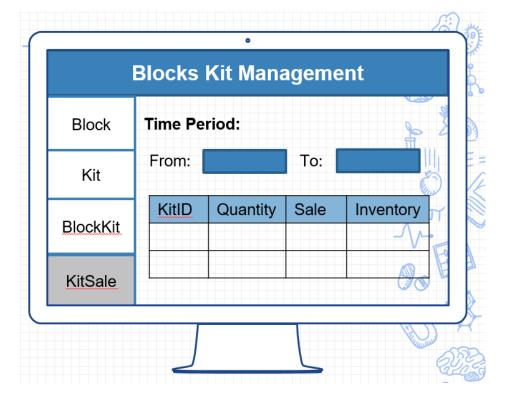
Fully defined use cases

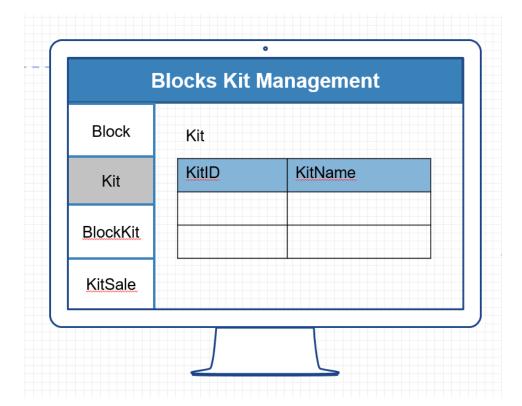
Use case name:	Extract Sales and update inventory		
Scenario:	Maret wants to extract sales of previous week		
Triggering event:	Maret want to know the sales of last week and manage inventory		
Brief description:	By knowing sales of prior week, it could help tell the amount of kit that has been sold before.		
Actors:	Maret		
Related use cases:			
Stakeholders:	Maret		
Preconditions:	The date was also recorded in the system.		
Postconditions:	Maret could know how many of each kit was sold last week.		
Flow of activities	Actor	System	
	Enter period that she wishes to know sales	Provide summary of block kit sales of previous week.	
Exception conditions:			

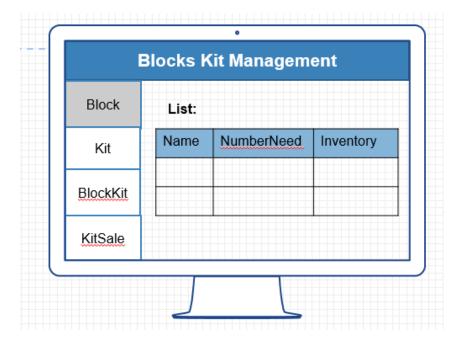
Use case name:	Get list needs	
Scenario:	Maret hopes to get a shopping list	
Triggering event:	Maret wants to buy something	
Brief description:	Maret hopes to get shopping list for shopping.	
Actors:	Maret	
Related use cases:	Update inventory	
Stakeholders:	Maret	
Preconditions:	There has recorded inventory in system.	
Postconditions:	Maret gets a shopping list.	
Flow of activities	Actor	System
	Maret clicks to get a report that should be purchased next week.	System returns a list of products that should be purchased.
Exception conditions:		

Use case name:	Enter/Update kit information	
Scenario:	Create new or change the information of kit	
Triggering event:	New information of kit is available	
Brief description:	When new information of kit is available, the information of kit should be updated.	
Actors:	Maret	
Related use cases:		
Stakeholders:	Maret	
Preconditions:	Relevant information is in the system.	
Postconditions:	New information is in the system.	
Flow of activities	Actor	System
	Maret wants to record new information of kits in the system.	New information is stored in the system.
Exception conditions:		

Storyboard







Database Design

Table	Fields
Kitsale	OrderID, KitID, Orderdate, QuantitySold
Kit	KitID, KitName
Block	BlockID, BlockName, InventoryLevel, DesiredLevel,
	Description
Blockkit	KitBlockID, KitID, Number

Architecture Diagram

