System Project - Database and Management

Chad E. Derrick

IUPUI

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Customer Problem Statements

Customers seek out an easy way to format and manage their databases, often spending excess amounts of resources and wasting time.

Managers seek a way to reliably log inventory, yet can have some problems in doing so, leading to lost productivity.

System Requirements

The system must be able to log inventory in a stocking situation.

The system must be able to keep histories of restocks, price changes, and any other notable change within the system.

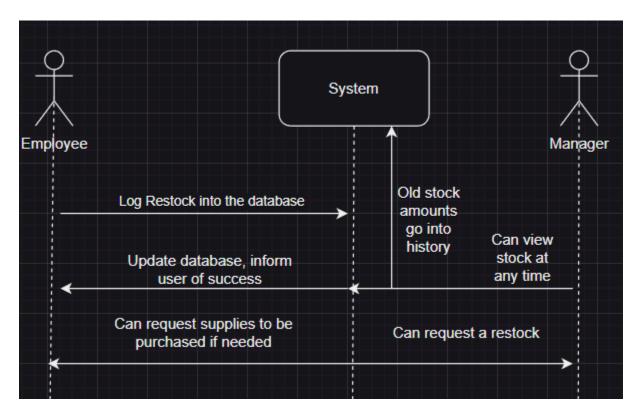
A manager must be able to view stock and stock history at any given time.

The system must be able to easily show an overview of stock history and price changes, as well as when they occurred.

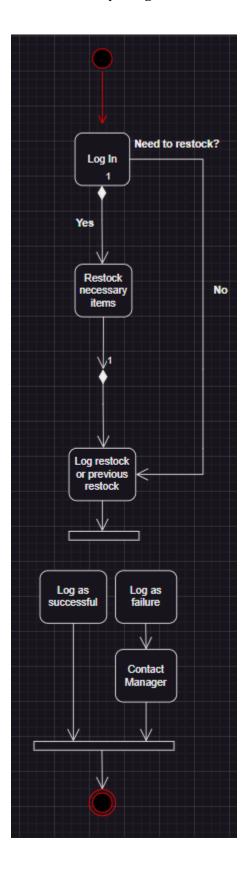
Functional Requirements

No.	Priority Weight	Description		
REQ-1	High	System must be able to log down all restocks.		
REQ-2	Low	System can display low stock with differently colored text, such as orange or red.		
REQ-3	High	The system will log down the history of every restock, price change, SKU change, or any other change that could occur with a product.		
REQ-4	High	A manager will be able to view restock history at any given time, as well as when the restock was done (also including price change/SKU change, etc.)		
REQ-5	High	An employee will be able to log restocks in reserve and/or on the shopping floor.		
REQ-6	Med-Low	An employee will be able to tell why a restock may not match up (e.g. product expiring or breaking/being destroyed in reserve or on the sales floor)		

System Sequence Diagram



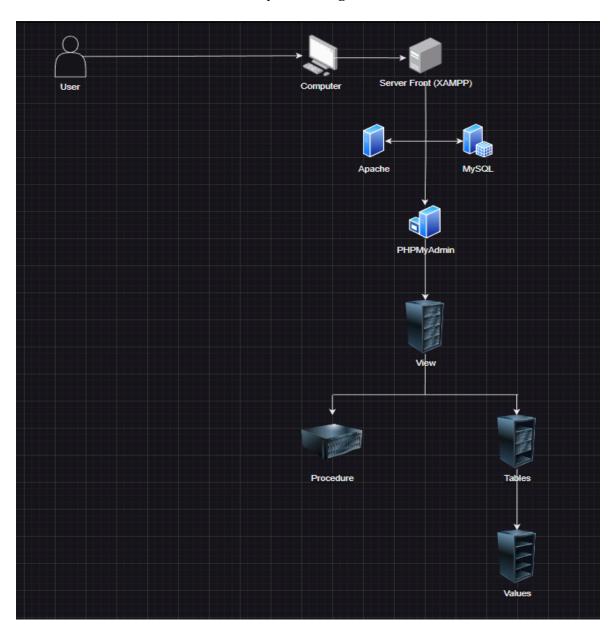
Activity Diagram



Traceability Matrix

Grocery Store Stock Management Project							
System Requirements							
Requirement Description	Requirement ID	Priority Weight	Status	Reason			
Can log restocks.	REQ-1	High	Completed				
Shows stock by color.	REQ-2	Low	Incomplete	Infrastructure didn't allow for it.			
Logs history of product change.	REQ-3	High	Completed				
Manager can view restocks.	REQ-4	High	Completed				
Employee can log restocks.	REQ-5	High	Completed				
Employee can include restock reason.	REQ-6	Med-Low	Completed				

System Design



Project Plan

I am pleased to say I am happy with the state of this project. It has been a lot of fun to work on.