Software-Design Document

for

Shop Inventory Management System

Version 1.2

Prepared by

Group #: 20

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Course: CS253

Mentor TA: Swastik Maiti

Date: 28th April 2022

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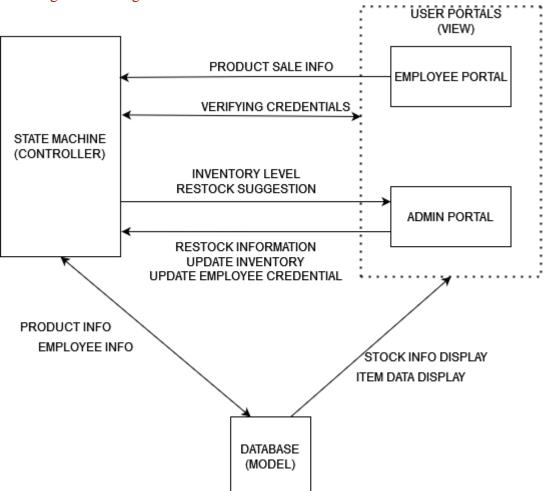
Revisions

Version	Primary Author(s)	Description of Version	Date Completed	
1.1	Kshitij Kabeer Rishabh Kothary Kartavya	Added all diagrams related to software design	15/02/2022	
1.2	Kshitij Kabeer Rishabh Kothary	Changed all diagrams to better match the final product we developed	28/04/2022	

1 Context Design

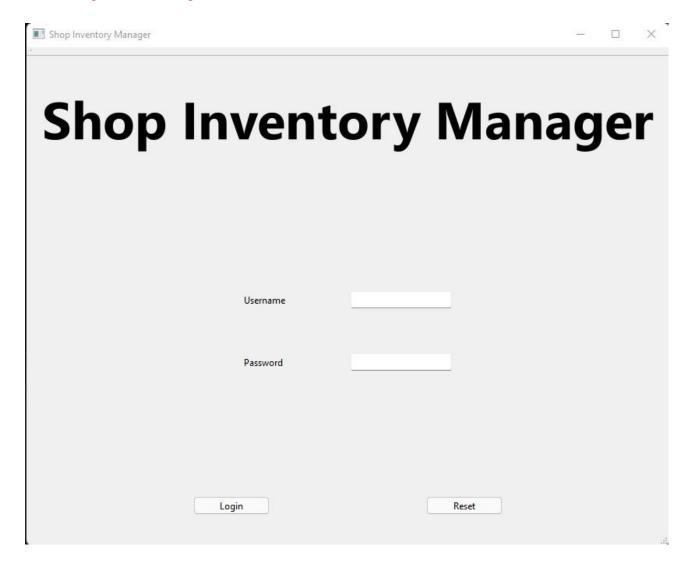
1.1 Context Model

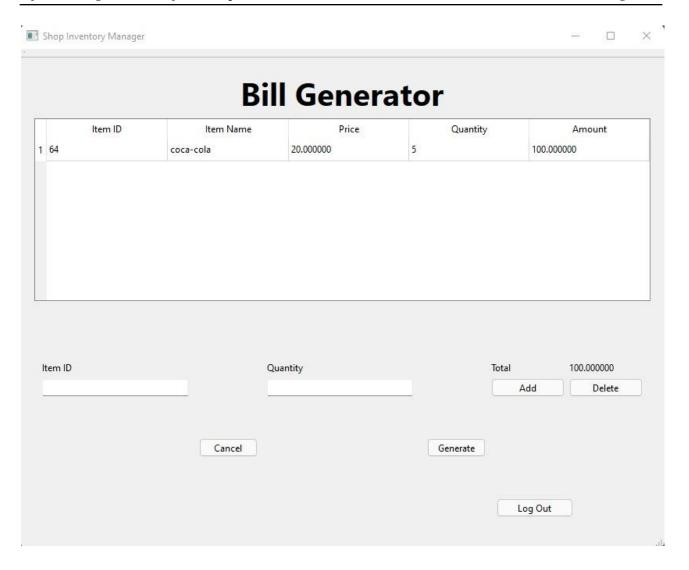
This diagram is changed

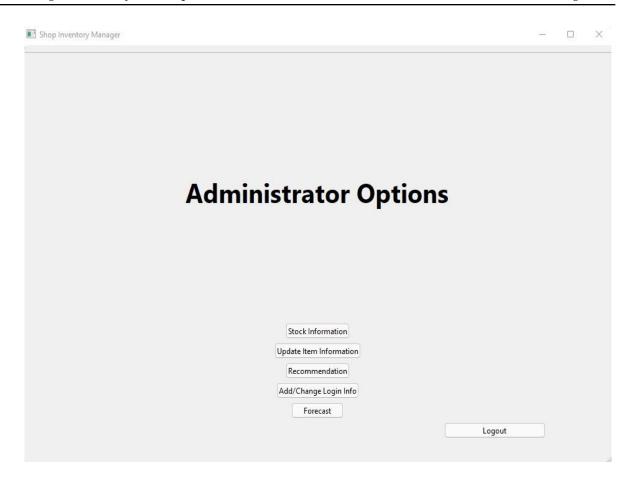


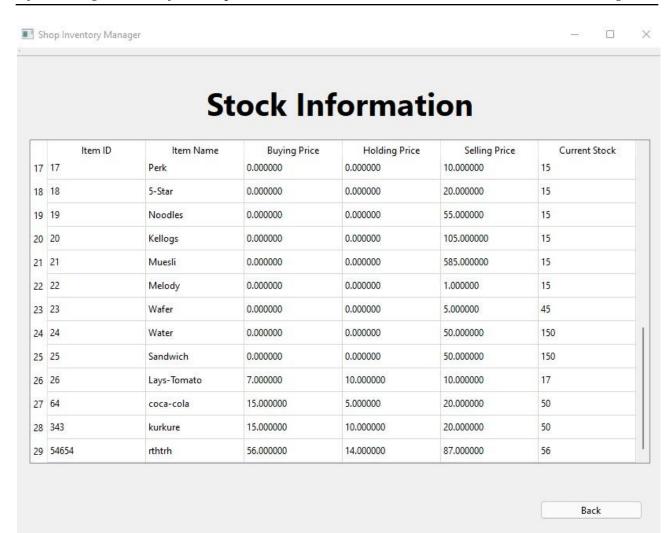
1.2 Human Interface Design

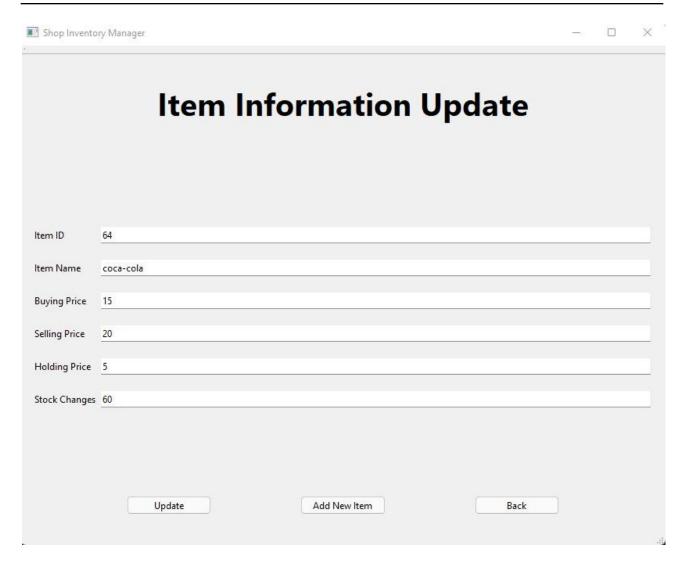
(These diagrams are changed)



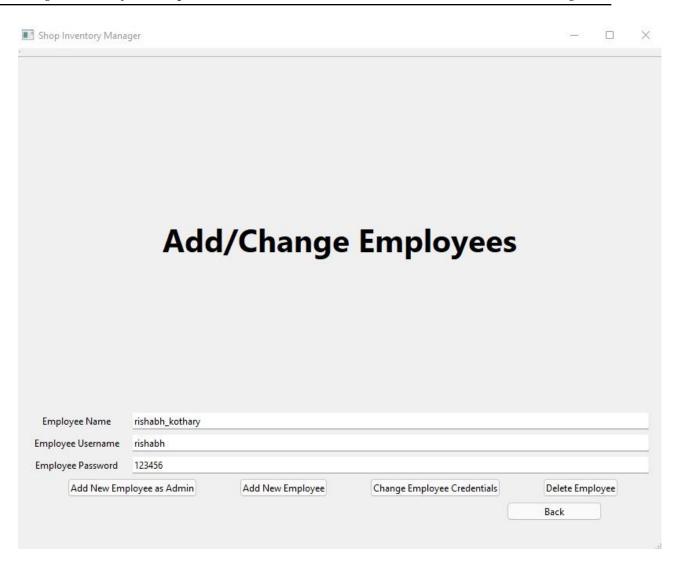




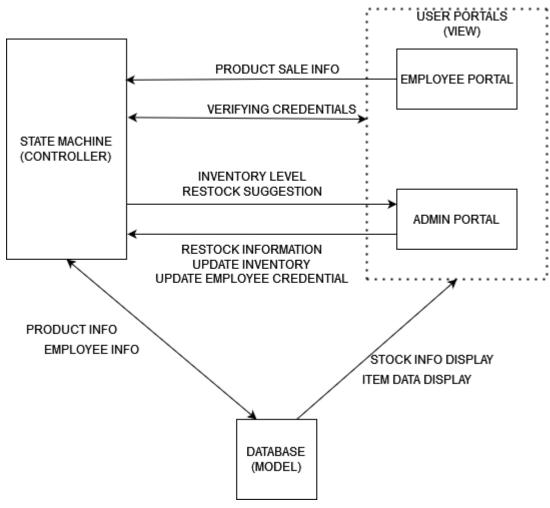




Restocking Suggestion					
Available Ca	ipital Item Nan	ne	Restock Amount		
Get suggestion			Back		



2 Architecture Design



(This diagram has changed)

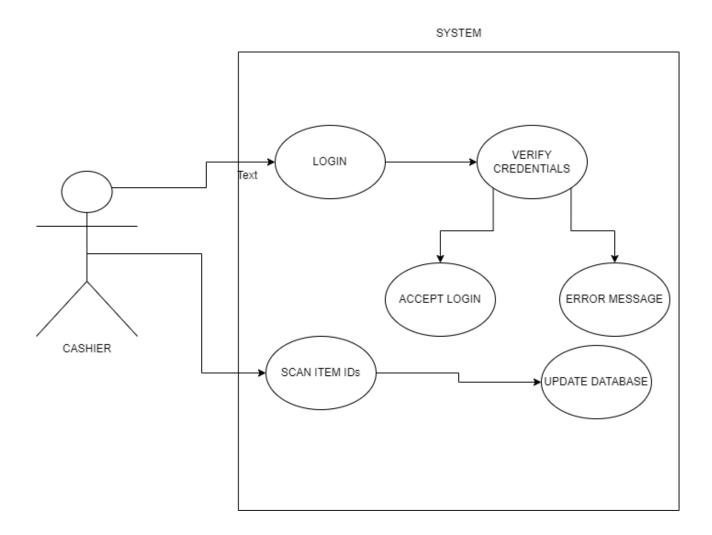
The architecture used is the Model-View-Controller Architecture, which is the most commonly used architecture for GUI programs

3 Object Oriented Design

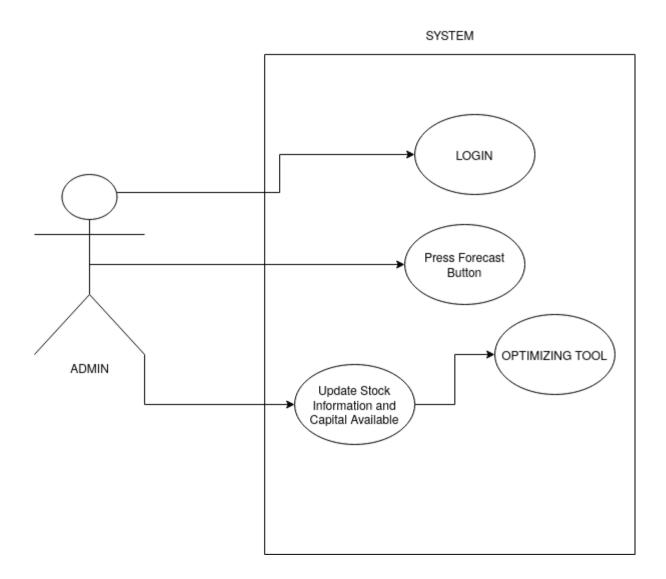
3.1 Use Case Diagrams

(These diagrams have changed)

Use Case: Item Invoice

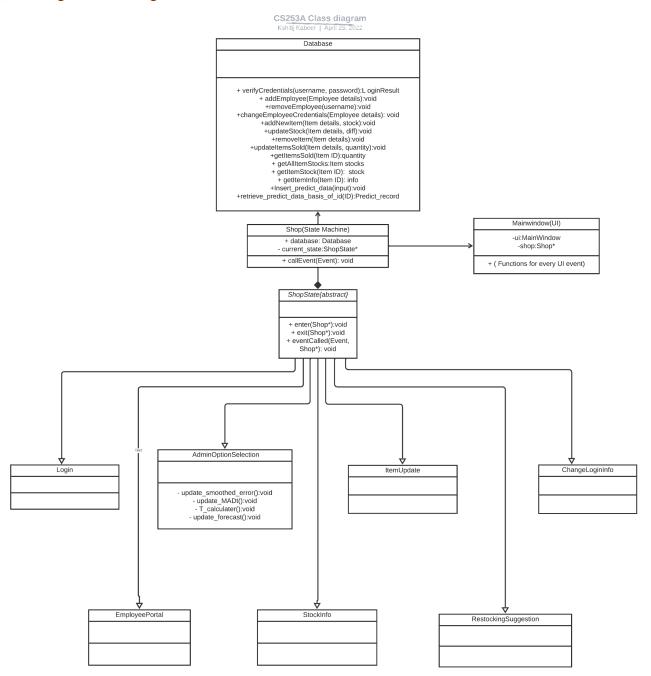


Use Case: Restocking Recommendations



3.2 Class Diagrams

(This diagram has changed)

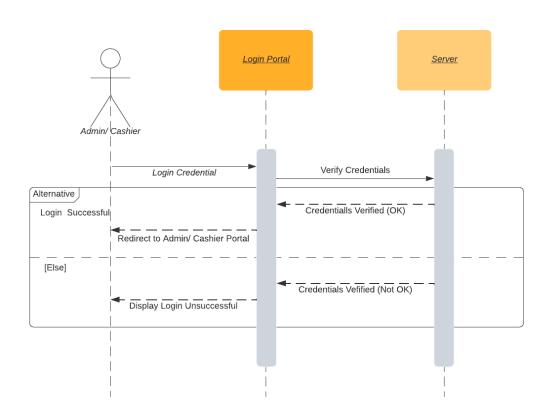


(Class diagram contains only the important classes and functions. Otherwise it will become too large to fit here)

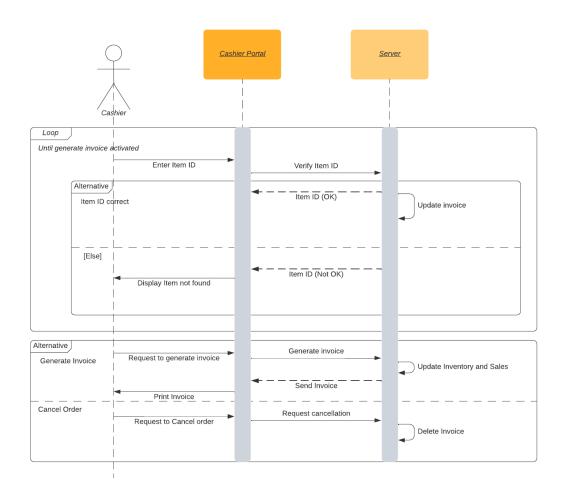
3.3 Sequence Diagrams

(These diagrams have changed)

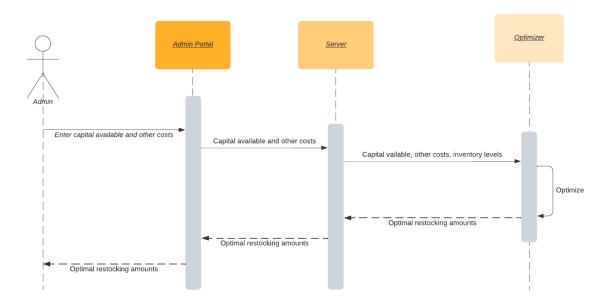




Customer Invoice

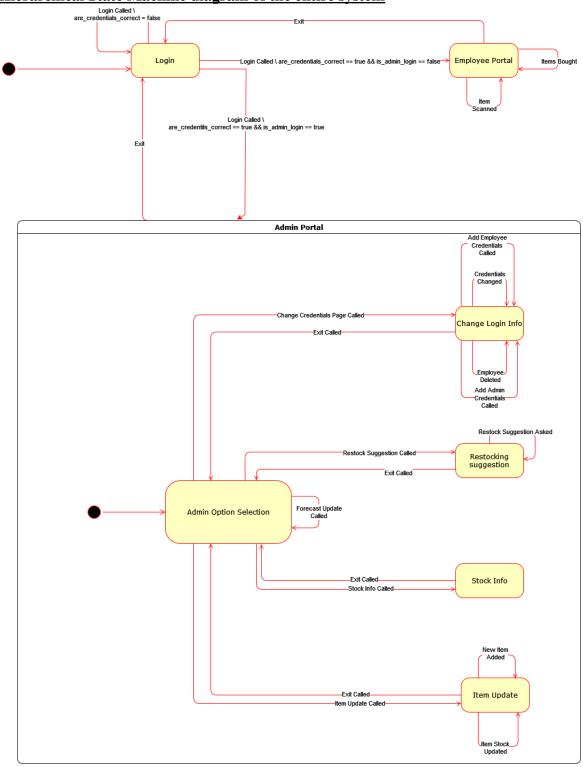


Request Recommendations



3.4 State Diagrams

Hierarchical State Machine diagram of the entire system



(This diagram has changed)

The state machine is implemented as a flattened version of this hierarchical state machine.

4 Project Plan

Timelines → Tasks↓	(14 /	ek 7 =eb - =eb)	Week 8 (21 Feb - 28 Feb)	(28 F	ek 9 eb - 7 ar)	(7th	ek 10 Mar - Mar)	Week 11 (14th Mar - 21st Mar)	(21st	k 12 Mar - Mar)
UI Design										
Database										
Core Functions			MIDSEM EXAMS					MIDSEM RECESS		
Unit Tests										
Integration Tests										
System Tests										

Task	Assigned Members
UI Design	Vikas
Database	Kartavya, Pravar
Core Functions	Rishabh, Kabeer
Unit Tests	Kundan, Vikas
Integration Tests	Rishabh, Kabeer
System Tests	Everybody

5 Other Requirements

No other requirements

Appendix A - Group Log

10 Feb 2022

Work Assigned:-

- 1) Class Diagrams Kshitij Kabeer
- 2) State Diagrams Kartavya
- 3) Architecture Diagram Pravar
- 4) Sequence Diagram Rishabh
- 5) Context Diagram Vikas

15 Feb 2022

Finished Gantt Chart, Context Diagram, Architecture Diagram, and edited the final document - Rishabh and Kshitij

25th April 2022

Updated Sequence Diagrams, added updated UI and new class diagram-Rishabh and Kshitij