

## Store Manager Application

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Use Cases:

- Login
- Select menu
- Add product
- Add stock
- Check paid invoices
- Check unpaid invoice
- Check stock (by warehouse or all warehouses)
- Checking total sales and commissions
- Add warehouse
- Add invoices
- Update invoices
- Add salesperson
- Update salesperson
- Update customer (active/inactive)
- Create Order
- Create Customer

Use Case 1	Login
Actors	User
Pre-Conditions	User is not logged on
Flow of Control	<ul style="list-style-type: none"><li>• Fill out input fields</li><li>• Click login button<ul style="list-style-type: none"><li>◦ Validates login information</li></ul></li></ul>
Post-Conditions	System grants owner access and displays the main menu
Error-Conditions	Invalid user input <ul style="list-style-type: none"><li>• Password not valid</li><li>• User input is empty</li></ul>
Non-Functional Requirements	Should be able to validate login information within 100ms

Use Case 2	Select menu
Actors	User
Pre-Conditions	User is logged-in to the system Must be on the main page
Flow of Control	<ul style="list-style-type: none"><li>• User selects menu option<ul style="list-style-type: none"><li>◦ User menu selection input validated</li></ul></li></ul>
Post-Conditions	User is taken to the desired menu.
Error-Conditions	Invalid menu selection input
Non-Functional Requirements	For usability, the menu should be intuitive to the user

Use Case 3	Add Product
Actors	User
Pre-Conditions	User has selected Add Product menu User is logged in
Flow of Control	<ul style="list-style-type: none"><li>• User inputs product they would like to add.<ul style="list-style-type: none"><li>◦ Product is added to the product list.</li></ul></li></ul>
Post-Conditions	Product is added and inventory is updated
Error-Conditions	Invalid product input <ul style="list-style-type: none"><li>• No duplicate products</li><li>• Input is empty</li><li>• Input is invalid</li></ul>
Non-Functional Requirements	Data is updated within the database system in at most 2ms

Use Case 4	Add Stock
Actors	User
Pre-Conditions	User is logged in User has selected Add Stock menu
Flow of Control	<ul style="list-style-type: none"><li>• User selects what warehouse he would like to add stock to<ul style="list-style-type: none"><li>◦ User input is validated</li></ul></li><li>• User selects what product he would like to add stock to<ul style="list-style-type: none"><li>◦ User input is validated</li></ul></li><li>• User inputs the amount of stocks to be added.<ul style="list-style-type: none"><li>◦ Input amount would be added to the current stock amount.</li></ul></li></ul>
Post-Conditions	Stock amount is added and total stock amount is updated
Error-Conditions	Invalid warehouse <ul style="list-style-type: none"><li>• Warehouse doesn't exist.</li></ul> Invalid product <ul style="list-style-type: none"><li>• Product name doesn't exist.</li></ul> Invalid stock input <ul style="list-style-type: none"><li>• Input is negative</li><li>• Input is empty</li><li>• Input is not a number</li></ul>
Non-Functional Requirements	User of the system can be trained to add stock within 2 hours

Use Case 5	Check paid invoices
Actors	User
Pre-Conditions	User is logged in User has selected the Check paid invoices menu
Flow of Control	<ul style="list-style-type: none"><li>• Displays all paid invoices in the system</li><li>• User clicks specific invoice<ul style="list-style-type: none"><li>◦ More details are then shown for the user.</li></ul></li></ul>
Post-Conditions	Displays all paid invoices in descending order of invoice amount.
Error-Conditions	No prior history.
Non-Functional Requirements	Capable of fixing errors within 3 hour period

Use Case 6	Check unpaid invoices
Actors	User
Pre-Conditions	User is logged in User has selected the Check unpaid invoices menu
Flow of Control	<ul style="list-style-type: none"><li>• Displays all unpaid invoices in the system</li><li>• User clicks specific invoice<ul style="list-style-type: none"><li>◦ More details are then shown for the user.</li></ul></li></ul>
Post-Conditions	Displays all unpaid invoices in increasing order of invoice date
Error-Conditions	No prior history
Non-Functional Requirements	Displays invoices within 5ms

Use Case 7	Check Stock
Actors	User
Pre-Conditions	User is logged-in User has selected the Check Stock menu
Flow of Control	<ul style="list-style-type: none"><li>• User chooses what warehouse they want to check stock for<ul style="list-style-type: none"><li>◦ Warehouse selection input validated</li></ul></li></ul>
Post-Conditions	Displays stock inventory for any warehouses the user selects
Error-Conditions	User input selection is invalid <ul style="list-style-type: none"><li>• Input is negative</li><li>• Input is empty</li><li>• Input is not a number</li></ul>
Non-Functional Requirements	Stock is updated in the database within 15ms

Use Case 8	Check total sales and commissions.
Actors	User
Pre-Conditions	User is logged-in User has selected the Check total sales and commissions menu
Flow of Control	<ul style="list-style-type: none"><li>• User clicks specific day<ul style="list-style-type: none"><li>◦ Menu displaying total sales and commissions for that day.</li></ul></li></ul>
Post-Conditions	Displays the total sale amount. Displays the commissions for each salesperson.
Error-Conditions	No recorded history.
Non-Functional Requirements	User can be trained to check sales and commissions within a 1 hour period

Use Case 9	Add warehouse
Actors	User
Pre-Conditions	User is logged-in User has selected the add warehouse menu
Flow of Control	<ul style="list-style-type: none"><li>• User inputs the warehouse to be added including the address with zip code and phone number<ul style="list-style-type: none"><li>◦ The warehouse added will be added to the total list of warehouse</li></ul></li></ul>
Post-Conditions	Warehouse is added to the existing list of warehouses and the user is now able to add stock to it.
Error-Conditions	Invalid warehouse input <ul style="list-style-type: none"><li>• Input is negative</li><li>• Input is empty</li><li>• Input is not a number</li><li>• Address exist already</li></ul>
Non-Functional Requirements	Supports Windows/Mac operating systems

Use Case 10	Add invoices
Actors	User
Pre-Conditions	User is logged-in User has created a valid order
Flow of Control	<ul style="list-style-type: none"><li>• User inputs the invoice date, sales amount, shipping, and salesperson.<ul style="list-style-type: none"><li>◦ Invoice date and sales amount are added.</li><li>◦ Salesperson's commission amount is updated.</li><li>◦ Shipping payment is added.</li></ul></li></ul>
Post-Conditions	New invoice is added to the current invoice list
Error-Conditions	Invalid user inputs <ul style="list-style-type: none"><li>• Date is invalid</li><li>• Sales amount is not a number</li><li>• Sales amount is not negative</li><li>• Salesperson is not on the current list</li><li>• Shipping amount is a negative number</li></ul>
Non-Functional Requirements	Invoice database is updated within 1000ms.

Use Case 11	Update invoices
Actors	User
Pre-Conditions	User is logged-in User has selected the Update Invoices menu option
Flow of Control	<ul style="list-style-type: none"><li>• User selects what unpaid invoice he would like to update<ul style="list-style-type: none"><li>◦ User selection input validated</li></ul></li><li>• User selects what field of the invoice he would like to update<ul style="list-style-type: none"><li>◦ User selection input validated</li></ul></li><li>• User updates the selected field<ul style="list-style-type: none"><li>◦ User input validated</li></ul></li></ul>
Post-Conditions	Invoice is updated with the new changes made by user
Error-Conditions	User inputs are invalid. No invoices to update.
Non-Functional Requirements	Invoices are updated within 500ms

Use Case 12	Add salespersons
Actors	User
Pre-Conditions	User is logged-in User has selected the add salespersons menu
Flow of Control	<ul style="list-style-type: none"><li>• Fill out necessary fields (Name, commission rate, etc.)<ul style="list-style-type: none"><li>◦ User input is validated</li><li>◦ Salesperson data is received by database</li></ul></li></ul>
Post-Conditions	Database is updated with the new salesperson
Error-Conditions	Empty fields (commision rate, name, etc) Invalid commission rate No duplicate input
Non-Functional Requirements	For reliability, mean time between failure should be at least 200 hours

Use Case 13	Update Salespersons
Actors	User
Pre-Conditions	User is logged-in User has selected the update Salesperson
Flow of Control	<ul style="list-style-type: none"><li>• User selects what salesman that user wants to update<ul style="list-style-type: none"><li>◦ User selection is validated</li></ul></li><li>• User selects what fields he would like to update (commission rate, name, etc)<ul style="list-style-type: none"><li>◦ User input is validated</li></ul></li></ul>
Post-Conditions	Database is updated with the new information of salesperson
Error-Conditions	Empty field (commision rate, name, etc) User input is invalid No salesperson to update
Non-Functional Requirements	Salesman database is updated within 2000ms



Use Case 14	Remove Salesperson
Actors	User
Pre-Conditions	User is logged-in User has selected the Remove Salesperson
Flow of Control	<ul style="list-style-type: none"><li>• User selects what salesman that user wants to remove<ul style="list-style-type: none"><li>◦ User selection is validated</li></ul></li></ul>
Post-Conditions	Database is updated and no longer shows the removed salesperson
Error-Conditions	Salesperson does not exist No salesperson to remove
Non-Functional Requirements	Salesman database is updated within 2000ms

Use Case 15	Update Customer
Actors	User
Pre-Conditions	User is logged-in User has selected the update customer menu option
Flow of Control	<ul style="list-style-type: none"><li>• User selects what customer they want to update<ul style="list-style-type: none"><li>◦ User selection is validated</li></ul></li><li>• User sets customer as inactive or active<ul style="list-style-type: none"><li>◦ User input is validated</li></ul></li></ul>
Post-Conditions	Database is updated with changes made to the customer.
Error-Conditions	Empty field User input is invalid Customer still has active invoices and as such can't be labeled as inactive
Non-Functional Requirements	Database updated within 2000ms

Use Case 16	Create order
Actors	User
Pre-Conditions	User is logged-in User has selected the create order menu
Flow of Control	<ul style="list-style-type: none"><li>• User selects the customer that is making the order<ul style="list-style-type: none"><li>◦ User input is validated</li></ul></li><li>• User selects the product(s) being ordered by the customer<ul style="list-style-type: none"><li>◦ User input is validated</li><li>◦ Stock for product is checked</li></ul></li><li>• User is allowed to add an invoice<ul style="list-style-type: none"><li>◦ User is taken to the add invoice section</li></ul></li></ul>
Post-Conditions	User order/sale is recorded with an invoice
Error-Conditions	Customer doesn't exist Product doesn't exist Product(s) inside the order are out of stock
Non-Functional Requirements	Order is received within 1000ms

Use Case 17	Create Customer
Actors	User
Pre-Conditions	User is logged-in User has selected the create customer
Flow of Control	<ul style="list-style-type: none"><li>• User inputs customer's info.<ul style="list-style-type: none"><li>◦ Inputs their name.</li><li>◦ Inputs their phone number</li><li>◦ Inputs their address</li></ul></li></ul>
Post-Conditions	Customer is created and stored into the system.
Error-Conditions	Invalid inputs <ul style="list-style-type: none"><li>• Phone number has characters in it.</li><li>• Phone number length is incorrect.</li><li>• Address doesn't exist</li></ul>
Non-Functional	Customer is added to the system within 500ms

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Requirements	
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