

## Warehouse Management App

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Use Case 1	Log In
<b>Actors:</b>	User
<b>Preconditions:</b>	No other user have log-in Must enter the correct password. Must Have Network Connection
<b>Flow-On-Control:</b>	<ul style="list-style-type: none"> <li>● Display text to prompt user for password <ul style="list-style-type: none"> <li>○ Fill out password</li> <li>○ Press enter</li> </ul> </li> <li>● Validate password</li> </ul>
<b>Post-Conditions:</b>	The program prompt the user that they now have access to the main menu
<b>Error Conditions:</b>	Input field is not Validated
<b>Non-Functional Conditions:</b>	Data should be processed and updated within 5 seconds.

Use Case 2	Add Products
<b>Actors:</b>	User
<b>Preconditions:</b>	Product must not duplicate
<b>Flow-On-Control:</b>	<ul style="list-style-type: none"> <li>● Program prompt user to fill out fields <ul style="list-style-type: none"> <li>○ Fill out product name</li> <li>○ Fill product price</li> </ul> </li> <li>● Validate product name and price</li> <li>● Press enter to save changes</li> <li>● Program ask user to add more item or exits</li> <li>● User add more items or exits</li> </ul>
<b>Post-Conditions:</b>	Update the item list Prompt the user about successful addition
<b>Error Conditions:</b>	Empty product name Empty price tag Invalid price

<b>Non-Functional Conditions:</b>	No internet connection
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Use Case 3	Add quantity
<b>Actors:</b>	User
<b>Preconditions:</b>	<ul style="list-style-type: none"> <li>• System must display all existing products.</li> </ul>
<b>Flow-On-Control:</b>	<ul style="list-style-type: none"> <li>• User selects a product.</li> <li>• User is prompted to enter the quantity of items to add.</li> <li>• Program validate user quantity</li> <li>• User presses enter to save changes. <ul style="list-style-type: none"> <li>◦ System displays the updated data.</li> </ul> </li> <li>• Program prompt ask user for more items or exits</li> <li>• User add more items or enter exit command</li> </ul>
<b>Post-Conditions:</b>	System must save & update these changes.
<b>Error Conditions:</b>	Product does not exist.
<b>Non-Functional Conditions:</b>	Data should be processed and updated within 5 seconds

Use Case 4	Display Inventory
<b>Actors:</b>	User
<b>Preconditions:</b>	Must be in manage item menu
<b>Flow-On-Control:</b>	<ul style="list-style-type: none"> <li>• Program display a list of items in the warehouse</li> <li>• Program prompt user to select a product to display details</li> <li>• User select a product</li> <li>• Program display the detail of product</li> <li>• Prompt the user for exit command</li> <li>• Validate the command</li> </ul>
<b>Post-Conditions:</b>	Program bring user to Manage Item menu
<b>Error Conditions:</b>	Empty inventory

<b>Non-Functional Conditions:</b>	Data should be processed and updated within 5 seconds
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Use Case 5	Display low amount items
<b>Actors:</b>	User
<b>Preconditions:</b>	Quantity of item must be less than or equal to 5
<b>Flow-On-Control:</b>	<ul style="list-style-type: none"> <li>• The program will show a display of items in increasing order by quantity</li> <li>• Program prompt user for exit command</li> <li>• Validate the command</li> </ul>
<b>Post-Conditions:</b>	The main menu screen is displayed again, prompting the user for another selection
<b>Error Conditions:</b>	Item with a quantity of 6 or more is displayed
<b>Non-Functional Conditions:</b>	Data should be processed and updated within 5 seconds

Use Case 6	Change Commision Rate
<b>Actors:</b>	User
<b>Preconditions:</b>	Salesperson exists
<b>Flow-On-Control:</b>	<ul style="list-style-type: none"> <li>• User Selects a salesperson <ul style="list-style-type: none"> <li>◦ User changes sales commission rate</li> </ul> </li> <li>• User presses enter to save changes</li> </ul>
<b>Post-Conditions:</b>	Salesperson table in database is updated User is taken back to main menu
<b>Error Conditions:</b>	User enters invalid salesperson
<b>Non-Functional Conditions:</b>	Data should be processed and updated within 5 seconds

Use Case 7	Display Salesperson and Amount
<b>Actors:</b>	User
<b>Preconditions:</b>	Must be in the Manage Salesperson/commission menu.
<b>Flow-On-Control:</b>	<ul style="list-style-type: none"> <li>• Program will display salespeople, their commission rates, total sales money, and total commissions in order of descending rate</li> <li>• Program will prompt user for exit command</li> <li>• Validate user input</li> </ul>
<b>Post-Conditions:</b>	
<b>Error Conditions:</b>	None
<b>Non-Functional Conditions:</b>	Data should be processed and displayed within 5 seconds

Use Case 8	Add Salesperson
<b>Actors:</b>	User
<b>Preconditions:</b>	Salesperson must not already exist
<b>Flow-On-Control:</b>	<ul style="list-style-type: none"> <li>• Program prompt user to fill out fields</li> <li>• Fill out name</li> <li>• Fill commission rate</li> <li>• Validate name and rate</li> <li>• Press enter to save changes</li> <li>• Program asks user to add more item or exits</li> <li>• User adds more items or exits</li> </ul>
<b>Post-Conditions:</b>	Update the salesperson list Notify the user that they have added a salesperson
<b>Error Conditions:</b>	Name is empty Commission rate is empty Invalid commission rate (numbers only)
<b>Non-Functional Conditions:</b>	No internet connection

Use Case 9	Remove salesperson
<b>Actors:</b>	User
<b>Preconditions:</b>	Program must display all salespeople
<b>Flow-On-Control:</b>	<ul style="list-style-type: none"> <li>• Program will display all salespeople</li> <li>• User is prompted to remove a salesperson or exit</li> <li>• Program will validate the user's choice of removal</li> <li>• User removes more salespeople or exits</li> </ul>
<b>Post-Conditions:</b>	Program updates the salesperson list Prompt the user about the successful removal
<b>Error Conditions:</b>	Salesperson does not exist
<b>Non-Functional Conditions:</b>	Data should be processed and updated within 5 seconds

Use Case 10	Create Invoice
<b>Actors:</b>	User
<b>Preconditions:</b>	User should be in Manage Invoices menu. Products being added to invoice must exist Invoice does not already exist
<b>Flow-On-Control:</b>	<ul style="list-style-type: none"> <li>• User selects Create Invoice option. <ul style="list-style-type: none"> <li>◦ System displays list of available products.</li> </ul> </li> <li>• User enters in customer information (customer name &amp; shipping information)</li> <li>• Add product one by one <ul style="list-style-type: none"> <li>◦ System sums up total for all products</li> </ul> </li> <li>• Enter sales tax for new customer <ul style="list-style-type: none"> <li>◦ System applies sales tax to total</li> </ul> </li> </ul>
<b>Post-Conditions:</b>	Update Invoice database. Update customer sale tax database Apply sales tax Subtract/Remove appropriate items from inventory Take user back to main menu
<b>Error Conditions:</b>	Invalid product is put into invoice Missing quantity for items selected Invoice already exists

<b>Non-Functional Conditions:</b>	Data should be processed and displayed within 5 seconds
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Use Case 11	View/Edit Invoices
<b>Actors:</b>	User
<b>Preconditions:</b>	Must be in Manage Invoice menu
<b>Flow-On-Control:</b>	<ul style="list-style-type: none"> <li>• Program display a list of invoice in decreasing order</li> <li>• User select an invoice to view/edit</li> <li>• Validate user invoice selection</li> <li>• Validate user inputs for appropriate fields (ie. deductions)</li> <li>• Confirm and save user changes</li> </ul>
<b>Post-Conditions:</b>	Program prompt user about successful changes Display the Manage Invoice menu
<b>Error Conditions:</b>	None
<b>Non-Functional Conditions:</b>	Data should be processed and displayed within 5 seconds

Use Case 13	Display open invoices
<b>Actors:</b>	User
<b>Preconditions:</b>	Must be in the Manage Invoices menu. Invoice must not be paid
<b>Flow-On-Control:</b>	<ul style="list-style-type: none"> <li>• Program display a list of invoices in order by their date</li> </ul>
<b>Post-Conditions:</b>	User is taken back to the main menu
<b>Error Conditions:</b>	None
<b>Non-Functional Conditions:</b>	Data should be processed and displayed within 5 seconds

Use Case 13	Display closed invoices
<b>Actors:</b>	User
<b>Preconditions:</b>	Must be in the manage invoices menu

	Invoice must be paid
<b>Flow-On-Control:</b>	<ul style="list-style-type: none"> <li>• Program displays a list of paid invoices in decreasing order by amount</li> </ul>
<b>Post-Conditions:</b>	User is taken back to main menu
<b>Error Conditions:</b>	None
<b>Non-Functional Conditions:</b>	Data should be processed and displayed within 5 seconds

Use Case 15	Display quantity by warehouse
<b>Actors:</b>	User
<b>Preconditions:</b>	Must have one warehouse
<b>Flow-On-Control:</b>	<ul style="list-style-type: none"> <li>• User selects Display quantity by warehouse option <ul style="list-style-type: none"> <li>◦ System displays lists of items sorted by warehouse</li> </ul> </li> <li>• User selects exit option. <ul style="list-style-type: none"> <li>◦ System validates option.</li> </ul> </li> </ul>
<b>Post-Conditions:</b>	Display Manage Item menu
<b>Error Conditions:</b>	None
<b>Non-Functional Conditions:</b>	Data should be processed and displayed within 5 seconds

Use Case 17	Change password
<b>Actors:</b>	User
<b>Preconditions:</b>	Must be logged in.
<b>Flow-On-Control:</b>	<ul style="list-style-type: none"> <li>• Program prompts user to enter existing password</li> <li>• User enters existing password</li> <li>• Program prompts user to enter new password</li> <li>• User enters new password</li> <li>• Program prompts user to type new password again</li> <li>• User enters new password again</li> <li>• Program makes sure the two new passwords match</li> <li>• Program save new password</li> </ul>



<b>Post-Conditions:</b>	Program updates new password Program returns to main menu
<b>Error Conditions:</b>	Existing password does not match New password does not match with itself the second time it is entered
<b>Non-Functional Conditions:</b>	Data should be processed and displayed within 5 seconds

Use Case 18	Add Warehouse
<b>Actors:</b>	User
<b>Preconditions:</b>	Must be in Manage Warehouse menu.
<b>Flow-On-Control:</b>	<ul style="list-style-type: none"> <li>● User selects add warehouse</li> <li>● User inputs name, street address, city, state, zip code &amp; phone number. <ul style="list-style-type: none"> <li>○ System validates user input</li> <li>○ System shows that the warehouse has been successfully added.</li> </ul> </li> </ul>
<b>Post-Conditions:</b>	System save user changes and update database System create new inventory for the warehouse
<b>Error Conditions:</b>	Warehouse already exists
<b>Non-Functional Conditions:</b>	Data should be processed and displayed within 5 seconds

Use Case 19	Remove Warehouse
<b>Actors:</b>	User
<b>Preconditions:</b>	Must be in the Manage Warehouse menu. Must have at least one warehouse
<b>Flow-On-Control:</b>	<ul style="list-style-type: none"> <li>● User selects remove warehouse option. <ul style="list-style-type: none"> <li>○ System display current warehouses</li> </ul> </li> <li>● User selects a warehouse</li> <li>● System validates user input</li> </ul>

<b>Post-Conditions:</b>	System save users changes and update current changes System remove Warehouse from database
<b>Error Conditions:</b>	None
<b>Non-Functional Conditions:</b>	Data should be processed and displayed within 5 seconds