

Use Cases:

Customer:

Online:

-Log In

- > 1.The User enters User name and password to login form
- > 2.The login form submits the credentials for authentication
- > 3.The User is authenticated and now logged in

Variation: Not verified

- > 1.1.Start at step 1.
- > 1.2.The User is not authenticated and is denied access and the option to try again

-Add Items to shopping cart

- > 1.The User selects an item from the webpage
- > 2.The User selects the quantity of the Item
- > 3.The User adds item into the shopping cart

-Checkout

- > 1.The User goes to checkout page
- > 2.The User enters credit card info
- > 3.The credit card info is verified
- > 4.The User confirms purchase and its completed
- > The transaction is sent to the transaction Database with pending status
- > The User is sent a pickup data

Variation 1: Not verified

- > 1.1.Start at step 3
- > 1.2.The credit card account is not authenticated and the user is taken back to enter card info page

Variation 2: Cancellation

- > 1.1.Any step between 1-4
- > 1.2.The User logs out/cancel/connection drop
- > 1.3.No transaction is made and cart is emptied
- > 1.4.State of the website is restored prior to Case

-User Edit

- > 1.Check user authentication make sure session is not expired
- > 2.Allow user to make edits to account
- > 3.Once user is done ask user to save to finalize edits

Variation 1: Not verified

- > 1.1.Start at step 1
- > 1.2.User is not verified
- > 1.3.Route user back to login/Signup and ask for credentials

Variation 2: Cancellation

- > 1.1.Any step between 2-3
- > 1.2.The User logs out/cancel/connection drop
- > 1.3.No edits are made to pre existing user info
- > 1.4.State of the website is restored prior to Case

-User contact store

- > 1.Check user authentication and make sure session is not expired
- > 2.User types message
- > 3.User confirms messages and sends it to store
- > 4.User receives a confirmation that message has been delivered

Variation 1: Not Verified

- > 1.1.Start at step 1
- > 1.2.User is not verified
- > 1.3.Route user back to login/Signup and ask for credentials

#### Variation 2: Cancellation

- > 1.1.Any step between 2-3
- > 1.2.The User logs out/cancel/connection drop
- > 1.3.The message is not sent
- > 1.4.State of the website is restored prior to Case

#### -Customer cancels order within 24 hours

- > 1.Check authentication of customer
- > 2.Customer selects specific items or whole order in which he wishes to cancel
- > 3.Hardware store is notified and order is removed or changed in transactions database
- > 4.Cancel confirmation is given to user

#### Variation 1: Cancellation

- > 1.1.Before step 3
- > 1.2.order is not changed or canceled store is not canceled

#### At store:

##### -User wants to make purchase

- > 1.User selects Items and Quantity
- > 2.Employee completes transaction

#### Variation 1: Item does not exist

- > 1.1.Start at step 1
- > 1.2.User is told item does not exist

#### Variation 2: Quantity does not exist

- > 1.1.Start at step 1
- > 1.2.User is told quantity does not exist

#### Variation 3: Cancellation

- > 1.1.Before step 2
- > 1.2.The user decides to cancel purchase
- > 1.3.Transaction is not made

#### Employee:

##### At store:

##### -Completing transaction

- > 1.User wants to make transaction
- > 2.Employee enters pin for verification
- > 3.Verify Item name and quantity in Hardware Store DB
- > 4.Enter user ID and Employee ID
- > 5.Complete transaction
- > 6.Update Transaction database
- > 7.Update Accounting database
- > 8.Update Hardware store database

#### Variation 1: Employee not verified

- > 1.1.Start at step 2
- > 1.2.Pin not authenticated
- > 1.3.Employee is asked to try again or cancel
- > 1.4 After 5 tries Employee is locked out till admin comes

#### Variation 2: Item does not exist

- > 1.1.Start at step 3
- > 1.2.User is told item does not exist

Variation 3: Quantity does not exist

- > 1.1.Start at step 3
- > 1.2.User is told quantity does not exist

Variation 4: ID does not exist

- > 1.1.Start at step 4
- > 1.2.ID does not exist for User
- > 1.3.Prompted to add create a new User

Variation 5: Cancellation

- > 1.1.Before step 5
- > 1.2.The user decides to cancel purchase
- > 1.3.Transaction is not made
- > 1.4.Return back to main menu

-Add new item or change quantity of existing

- > 1.Employee wants to add new Item or change the quantity of an existing one
- > 2.Employee enters pin for verification
- > 3.Employee is prompted with menu to add or change existing item quantity

Variation 1: Employee not verified

- > 1.1.Start at step 2
- > 1.2.Pin not authenticated
- > 1.3.Employee is asked to try again or cancel
- > 1.4 After 5 tries Employee is locked out till admin comes

Variation 2: Add new item

- > 1.1.Start at step 3.
- > 1.2.Employee selects option to add new item into the Hardware Database
- > 1.3.Employee selects type of item
- > 1.4.Employee enters relevant fields for item
- > 1.5.New Item is stored in databases

Sub-Variation 2.2: Item already exist

- > 1.1.1.Start at step 1.4
- > 1.1.2.Employee is notified Item already exist and is ask if they would like to update quantity of item or exit

Variation 3: Change Quantity

- > 1.1.Start at step 1
- > 1.2.Employee selects option to add to quantity of pre-existing item
- > 1.3.Employee searches for ID of item
- > 1.4.Employee adds new quantity to existing quantity.

Sub-Variation 2.2: ID does not exist

- > 1.1.1.Start at step 1.3
- > 1.1.2.Employee is notified ID does not exist is given option to try again or quit.

Variation 4: Cancellation

- > 1.1.Before step 1.4 for either variation 1 or 2
- > 1.2.The Employee cancels
- > 1.3.Item is not created or changed
- > 1.4.Return back to main menu

-Add new Customer or Edit existing

- > 1.Employee wants to add a new Customer or edit existing into the database
- > 2.Employee enters pin for verification

> 3.Employee selects option to add new Customer into the User Database

> 4.Employee enters relevant fields for Customer

> 5.new Customer is added into the database

Variation 1: Employee not verified

> 1.1.Start at step 2

> 1.2.Pin not authenticated

> 1.3.Employee is asked to try again or cancel

> 1.4 After 5 tries Employee is locked out till admin comes

Variation 2: User already exist

> 1.1.Start at step 4

> 1.2.Employee is notified User already exist and is ask if they would like to update User or exit

Variation 3: Cancellation

> 1.1.Before step 5

> 1.2.The Employee cancels

> 1.3.User is not created or changed

-Reply to Customer message

> 1.Employee wants to Reply to customer questions

> 2.Employee enters pin for verification

> 3.Employee responds to message and submits

> 4.Message is sent to user

> 5.Once message is confirmed and sent, the message is de-queued from the message queue

Variation 1: Employee not verified

> 1.1.Start at step 2

> 1.2.Pin not authenticated

> 1.3.Employee is asked to try again or cancel

> 1.4 After 5 tries Employee is locked out till admin comes

Variation 2: Cancellation

> 1.1.Before step 4

> 1.2.Message is not sent and remains on the queue

> 1.3.Return back to main menu

## Administrator

-Add/edit new Employee

> 1.Admin enters relevant fields to add/edit Employee

Variation 1: New Employee

> 1.1.Start from step 1

> 1.2.Enter new Employee info

> 1.3.User Database is updated

Sub-Variation 1: Employee already Exist

> 1.1.1.Start from step 1.2

> 1.1.2.Prompt admin to edit Employee or quit

Variation 2: Edit Employee

> 1.1.Start from step 1

> 1.2.Select field you wish to change

> 1.3.Enter value for field and submit

> 1.4.User Database is updated

Variation 3: Cancellation

- > 1.1.At any time before Database is updated
- > 1.2.User is not updated
- > 1.3.Return back to main menu

-Pay Expenses

- > 1.Grab Total Expenses that need to be paid for from Accounting Management
- > 2.Pay Expenses if there are sufficient funds

Variation 1: insufficient funds

- > 1.1.Start at step 2.
- > 1.2.If funds are insufficient alert Admin
- > 1.3.Cancel the payment and return back to main menu

Variation 2: Cancellation

- > 1.1.Before step 2
- > 1.2.Payment is canceled
- > 1.3.Return back to main menu

-Get revenue

- > 1.Get revenue from Accounting Management
- > 2.View report
- > 3.Option to print report

Variation 1: Cancellation

- > 1.1.Before step 2
- > 1.2.Report is canceled
- > 1.3.Return back to main menu

-Print report

- > 1.Admin print financial report
- > 2.Report is printed
- > 3.Admin is back to the main menu

Variation 1: Cancellation

- > 1.1.Before step 2
- > 1.2.Report is canceled
- > 1.3.Return back to main menu