

Name of Project :- Mobile Shop Management**Group No :- 9**

Sr.No	Division	Roll No.	Name
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2	B	2	Gayatri Manohar More
3	B	3	Krushanav Dileep More
4	B	4	Arpita Atmaram Naik
5	B	5	Priyanka Santosh Naik
6	B	6	Mihir Rajesh Narvekar

Abstract

The mobile management system described in this abstract offers comprehensive device management capabilities for smartphones, tablets, and other mobile devices. It enables organizations to centrally manage their mobile device fleet, including device provisioning, configuration, and monitoring. The system provides a user-friendly interface that allows administrators to efficiently deploy applications, updates, and security policies across multiple devices simultaneously.

Furthermore, the mobile management system facilitates enhanced productivity and efficiency by optimizing mobile workflows. It enables seamless integration with various business applications and services, allowing employees to access critical resources and collaborate effectively on-the-go. The system supports mobile content management, enabling secure file sharing and synchronization across devices.

System concept statement.

The mobile shop management is mission to streamline sales, billing, and stock management processes, our system aims to enhance efficiency, customer service, and inventory control. As a comprehensive tool, the system will empower mobile shop owners and staff to effortlessly manage their operations such as sales management, stock management and billing, etc. It will cater to the needs of various system users, including shop administrators, sales representatives, and inventory managers.

The Mobile Shop Management System will facilitate smooth sales transactions by providing features such as product selection, quantity management, and automated invoicing. It will also encompass billing functionalities to calculate taxes, discounts, and promotions accurately. Additionally, the system will offer real-time stock management capabilities, enabling efficient inventory tracking and replenishment. By addressing the challenges faced by mobile shop owners, such as manual processes, inventory discrepancies, and time-consuming operations, our system will significantly streamline business operations, improve customer satisfaction, and optimize profitability.

Intended Audience:

IT professionals and administrators responsible for managing mobile devices within organizations.

Information security professionals concerned with securing mobile devices and data.

Executives and decision-makers seeking to optimize mobile workflows and enhance productivity.

Mobile device users interested in understanding the management and security measures implemented by organizations.

Functional and Non-functional Requirements:

Functional Requirements: The mobile shop management system should include the following key functionalities:

Sales Management: Enable recording and tracking of sales transactions, including generating invoices, managing discounts, and processing payments.

Inventory Management: Track stock levels, manage product information, facilitate stock replenishment, and generate inventory reports.

Employee Management: Maintain employee records, manage roles and access rights, track attendance, and handle employee schedules.

Customer Management: Store and manage customer information, track purchase history, and enable customer communication and loyalty programs.

Reporting and Analytics: Generate comprehensive reports on sales, inventory, employee performance, and other key metrics. Provide data analytics capabilities to gain insights and support decision-making.

Non-functional Requirements: The mobile shop management system should meet the following non-functional requirements:

Performance: Ensure fast and responsive system performance, even during peak hours and with a large volume of data.

Security: Implement secure user authentication, data encryption, and access control measures to protect sensitive information.

Usability: Design an intuitive and user-friendly interface, providing ease of use and minimizing training requirements.

Reliability: Ensure the system operates reliably, with minimal downtime and robust error handling mechanisms.

Scalability: Accommodate future growth by allowing the system to scale seamlessly with increased data, users, and transactions.

Design


➤ User Persona

Anil Deshmukh - Inventory Manager

Ready
Done

Go Green

Age: 32
 Work: Inventory Manager
 Family: Married
 Location: Mumbai



"The longer you wait, the harder it is to produce outstanding customer service."

Motivation

Fear:
 Power:
 Social:

Goals

- To achieve his target given by the boss.
- To measure multiple aspects of life more scientifically.
- To set goals and see and make positive impacts on his life.

Frustrations

- Unfamiliar with wearable technology
- Saturated tracking market
- Manual tracking is too time-consuming

Bio

Anil is a systems inventory manager, a "data junkie" and for the past couple of years, has been very interested in tracking aspects of his health and performance. Anil wants to track his mood, happiness, sleep quality, and how his eating and exercise habits affect his well-being. Although he is very much active on social media. He is a responsible manager who keeps all data of system arrange in manner.





Personality

Introvert: Extrovert:
 Analytical: Creative:
 Loyal: Polite:
 Passive: Active:

Preferred Channels

Social Media:
 Mobile:
 Email:
 Traditional Ads:

Brands

Sayali Sharma



"Work Hard Be Strong, Be Independent..."

Age: 24
 Work: Cashier
 Family: Un-Married
 Location: Ratnagiri, Maharashtra
 Character: Friendly

Goals

- To make customer satisfy with our products.
- Improve transaction speed.
- Create Positive Relationship.

Frustrations

- Handling too many customers at a time.
- working on holidays
- can't adjust easily with new technology.

Bio

Energetic, hardworking cashier valued for fast, friendly service and accuracy in handling customer transactions. Address customers needs while quickly moving them through the check-out process. Passionate about serving others and eager to take on new responsibilities and leadership roles.

Motivation

Incentive:
 Fear:
 Growth:
 Power:
 Social:

Social Media

Preferred Channels

Traditional Ads:
 Online & Social Media:
 Referral:
 Guerrilla Efforts & PR:

Personality

Introvert: Extrovert:
 Thinking: Feeling:
 Sensing: Intuition:
 Judging: Perceiving:

Mobile Sales Manager



"Either run the day or the day runs you!"

Goals

- To increase annual sales and profit.
- To increase sales by 10% over the next year.
- Responding quickly to customers' problems.

Frustrations

- Dealing with rejection in sales.
- Build trust with customers and boost credibility.

Social Media Activity

Facebook:

Instagram:

Twitter:

Snatchat:

Brands & Influencers

OPPO A55

Apple, Samsung, MI, Redmi, NOKIA, HUAWEI, JIO, ASUS, ZTE, etc.

Bio

Mahesh began his sales career about five years ago and this time taught him the best practices for promoting and selling products, along with understanding customers behaviors. He spent the time to communicate with customers each day to answer their shopping questions and provide recommendations.

Motivation

Fear:

Growth:

Power:

Social:

Incentive:

Preferred Channels

Traditional Ads:

Online & Social Media:

Referral:

Guerrilla Efforts & PR:

Email Address

Krushnav Dilip More

The Charmer, Relationship Builder, Expert, The Connector



"Always do your best"

Goals

Achieving Sales Targets.
Providing Excellent Customer Service.
Building a Strong Sales Pipeline.
Contributing to Team Success.

Frustrations

Rejection and Resistance.
Meeting Sales Targets.
Dealing with Competition.
Managing Pressure and Stress.

Bio

With over 5 years of experience in sales, Krushnav More is a seasoned sales professional known for his exceptional relationship-building skills and track record of delivering outstanding results. He has a genuine passion for connecting with customers, understanding their needs, and providing tailored solutions that drive business growth.

Motivation

Incentive:

Fear:

Growth:

Power:

Social:

Brands & Influencers

Apple, SS MOBILE, SAMSUNG

Preferred Channels

Traditional Ads:

Online & Social Media:

Guerrilla Efforts & PR:

Personality

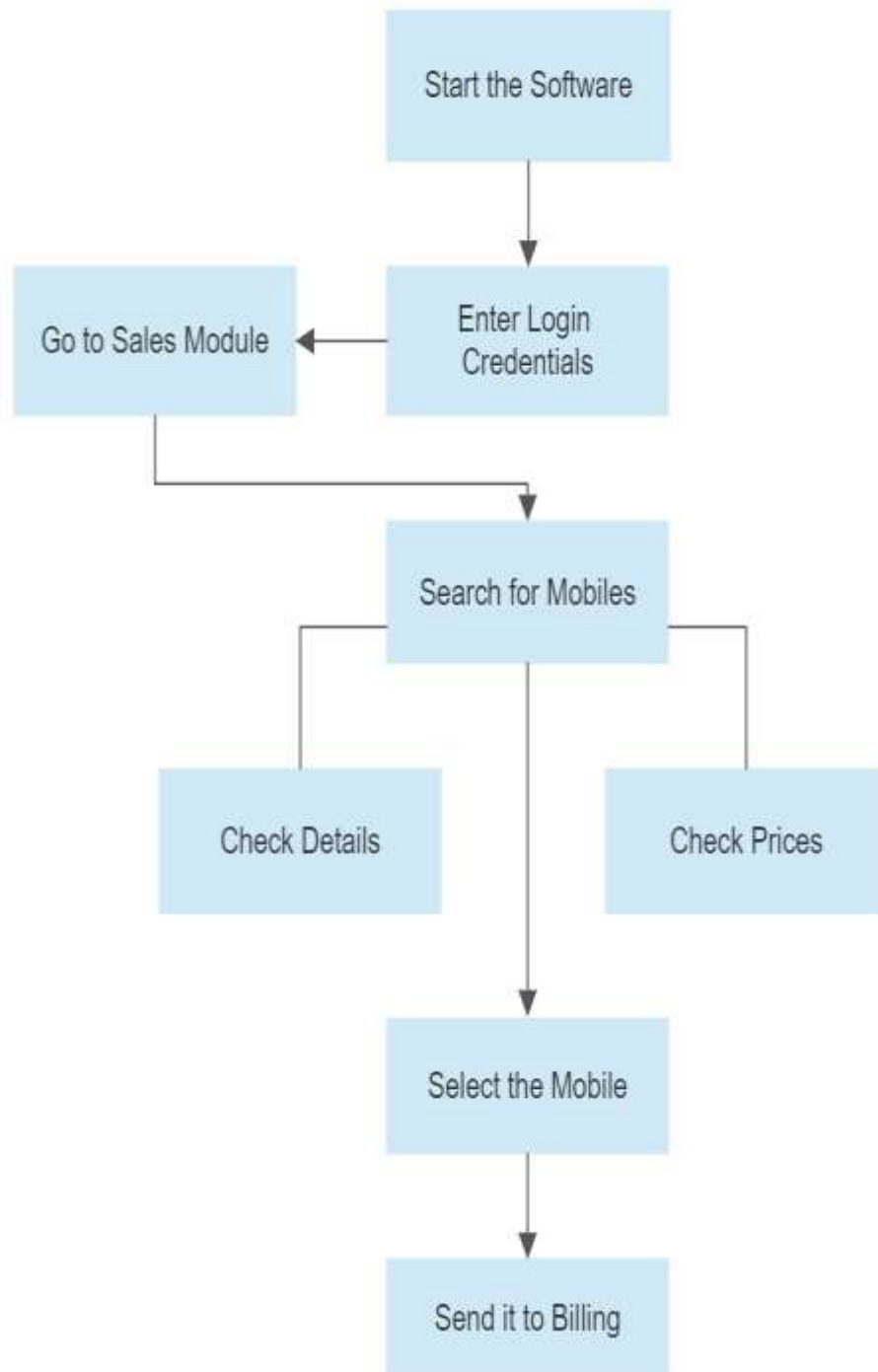
Picky: Easy:

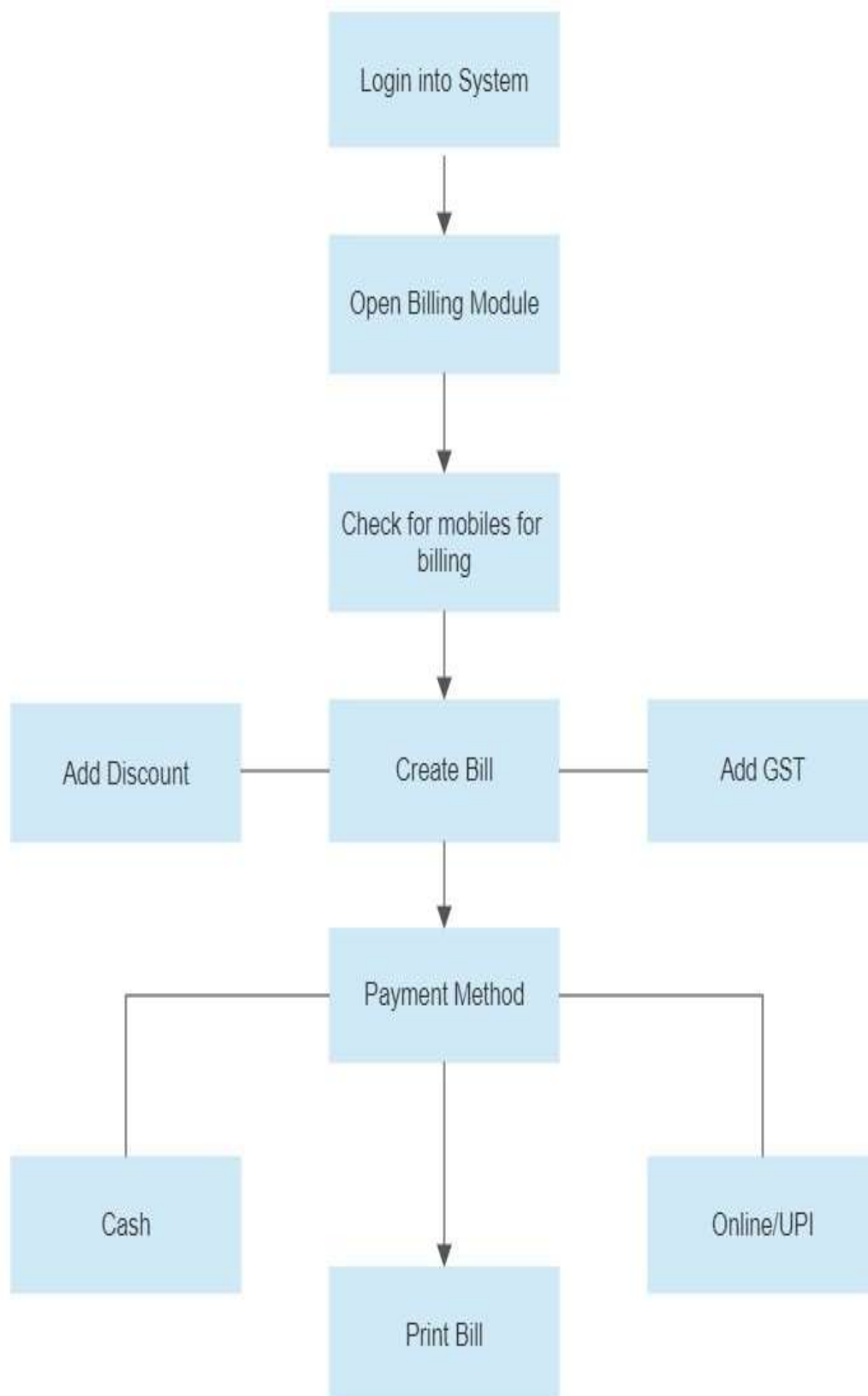
Analytical: Creative:

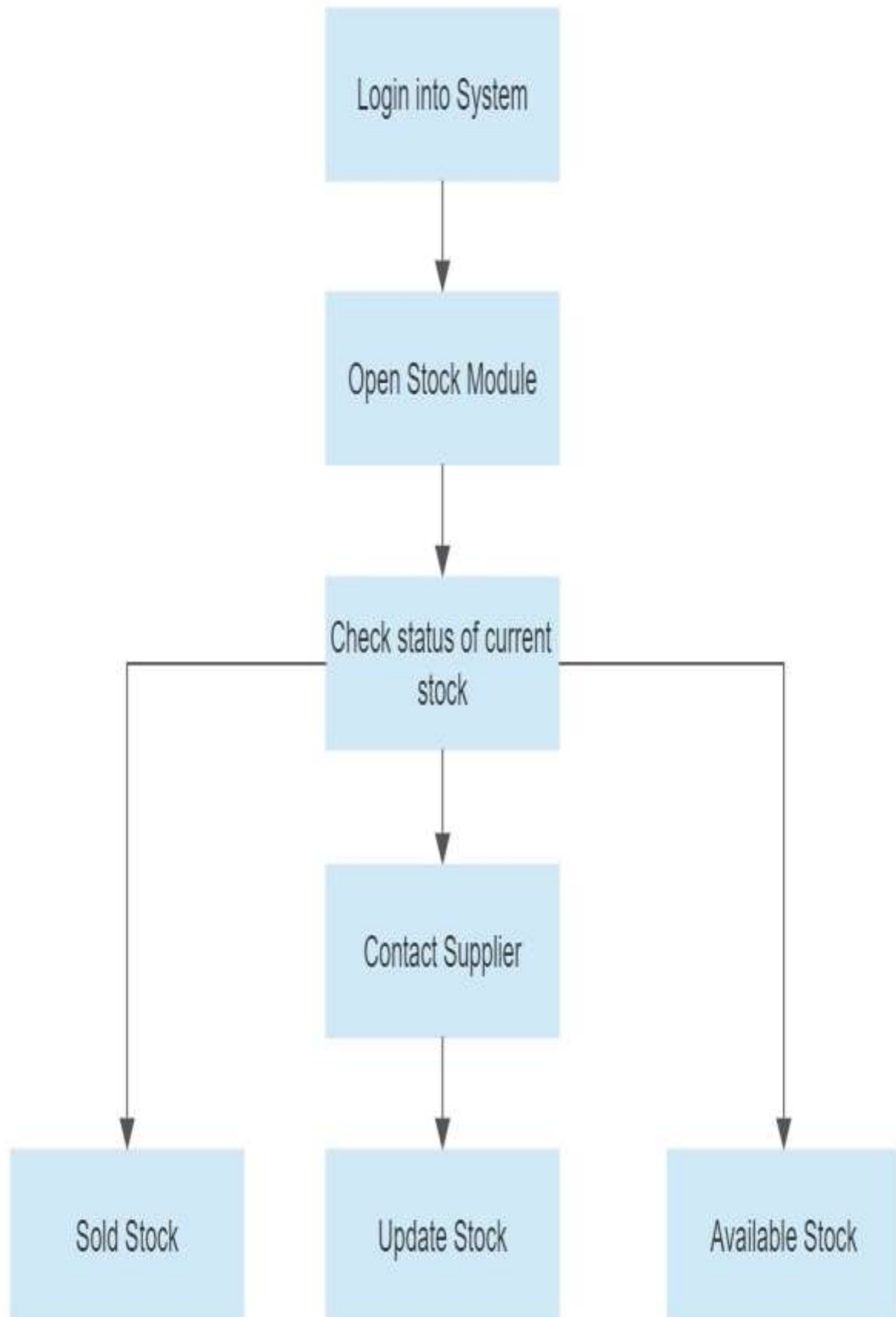
Introvert: Extrovert:

Passive: Active:

➤ Task Analysis Model

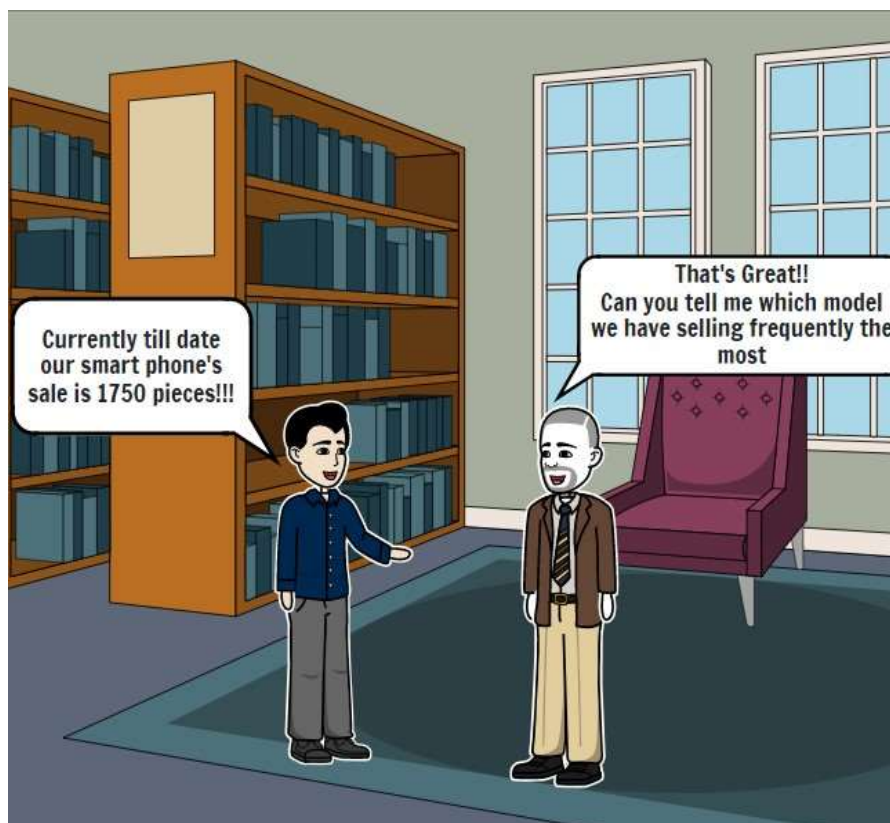


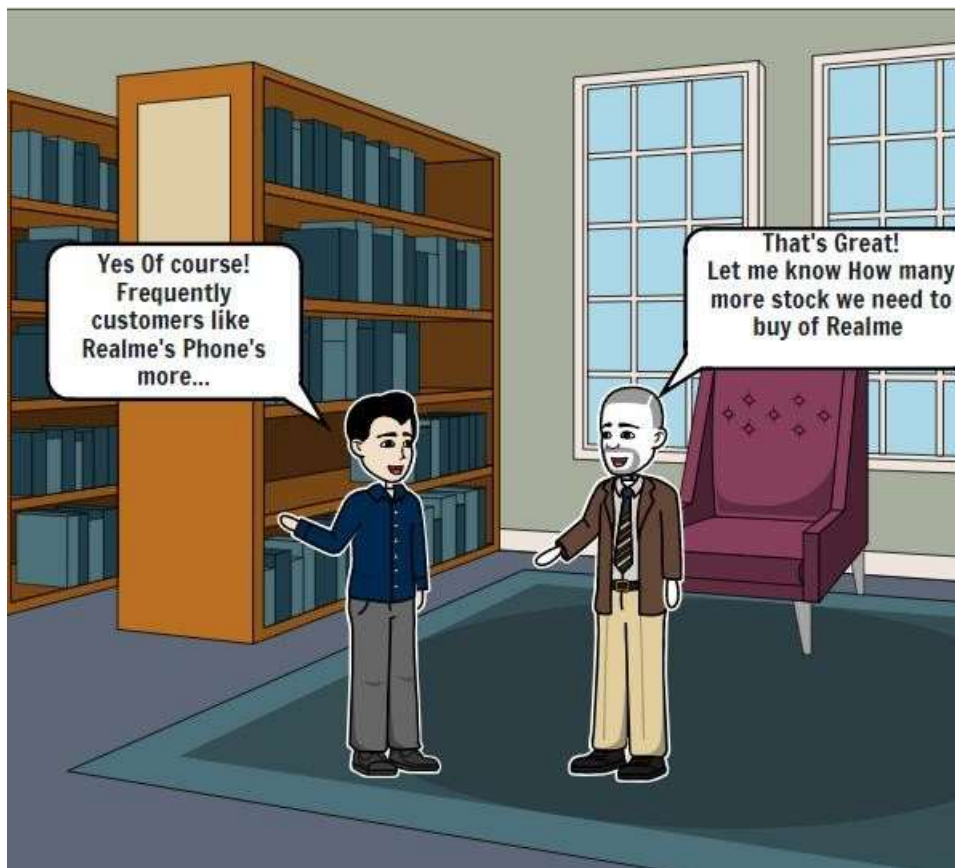
**C.**



➤ Story board and sketches







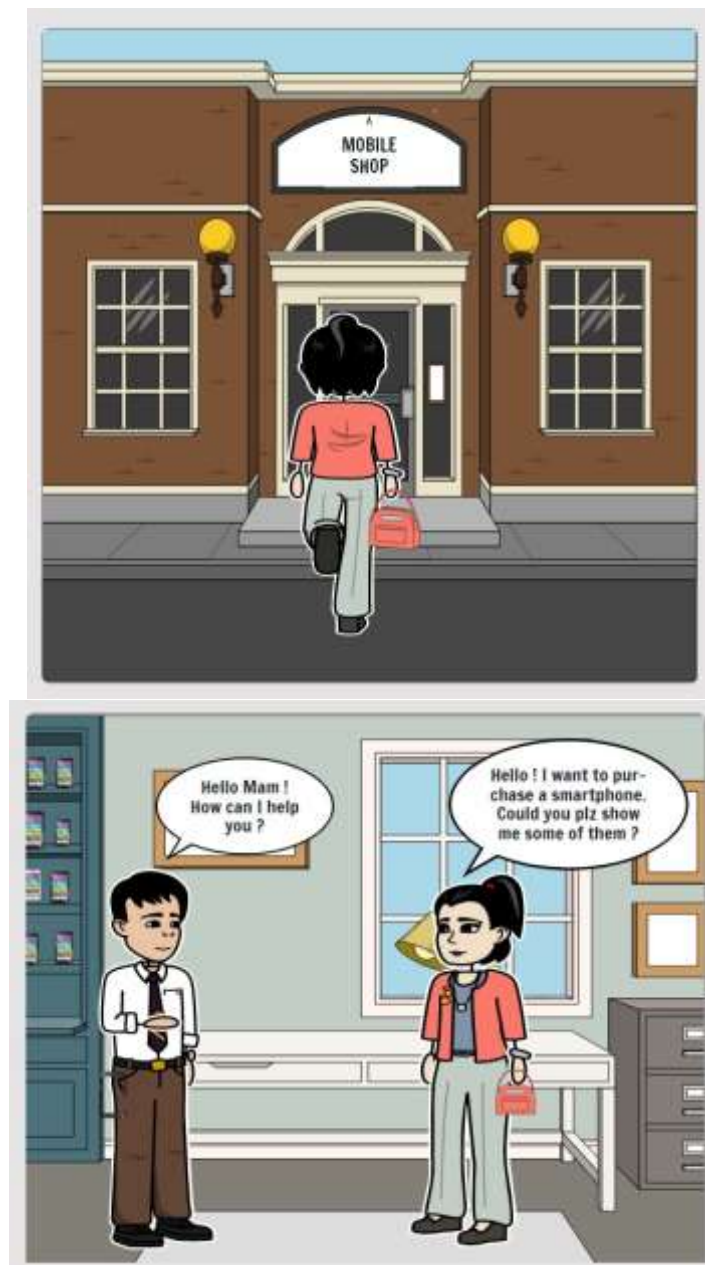




Story Description: Conversation Between Stock Manager and Shop Owner.

Once upon a time, the owner stepped into the stock manager's office, requesting a report on the daily stock. Eagerly, the stock manager shared the detailed report, revealing that the realme model was the top-selling item. Intrigued, the owner inquired about the number of additional realme phones needed, to which the manager confidently responded, "We require 700 more." Recognizing the urgency, the owner instructed the stock manager to swiftly contact the dealer and place the order. Without hesitation, the stock manager reached for the phone, dialing the dealer's number and securing the purchase of 700 realme phones. In this harmonious exchange, the stock manager and owner worked together seamlessly, ensuring the business could meet customer demands and continue to thrive.

Scenario 2











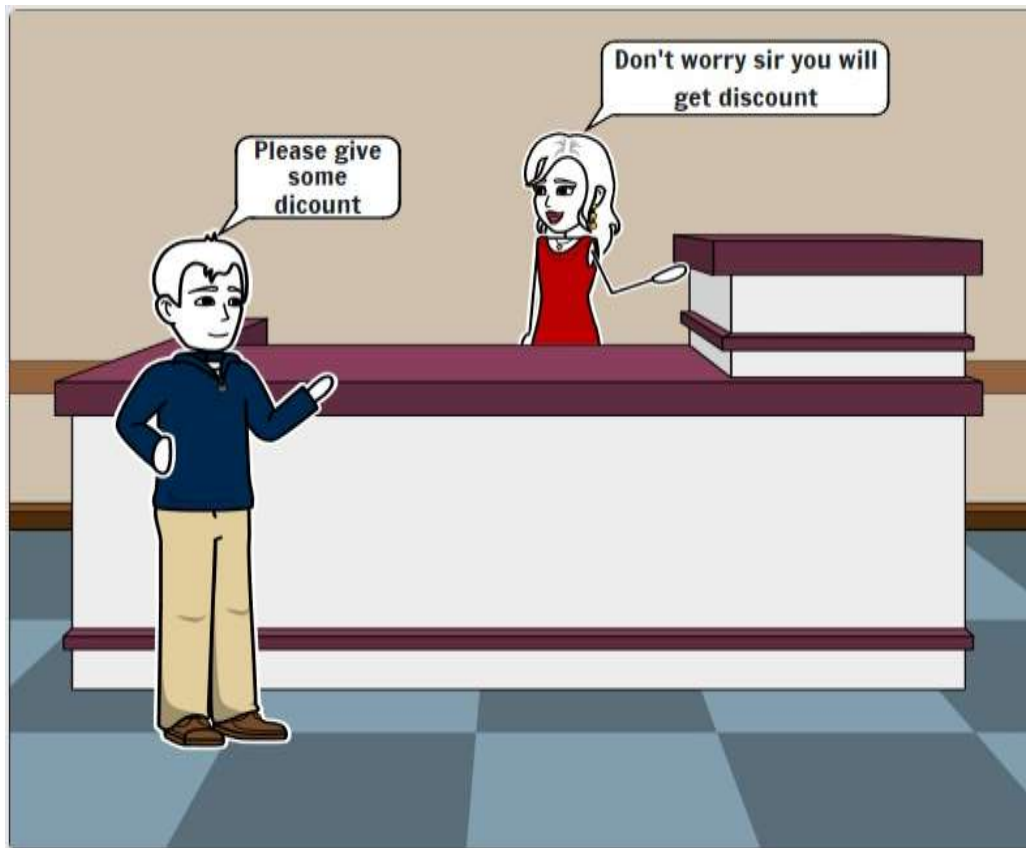
Story Description: Conversation Between Customer and Salesman.

The customer, let's call her Sarah, is in search of a new phone that meets her specific requirements and preferences. She decides to visit a local mobile shop to explore the available options and make an informed purchase. As she enters the shop, she is greeted by a friendly staff member who directs her to the section dedicated to mobile phones. Sarah finds herself surrounded by a wide range of phone models from various brands, neatly displayed on shelves and stands. With the staff member's guidance, Sarah decides to test a few phones before making her final decision. After thorough exploration and consideration, Sarah finally selects the phone that best aligns with her needs and preferences. The staff member assists her with the purchase process, providing information about the pricing, available payment options, and any ongoing promotions or discounts.

Senario 3





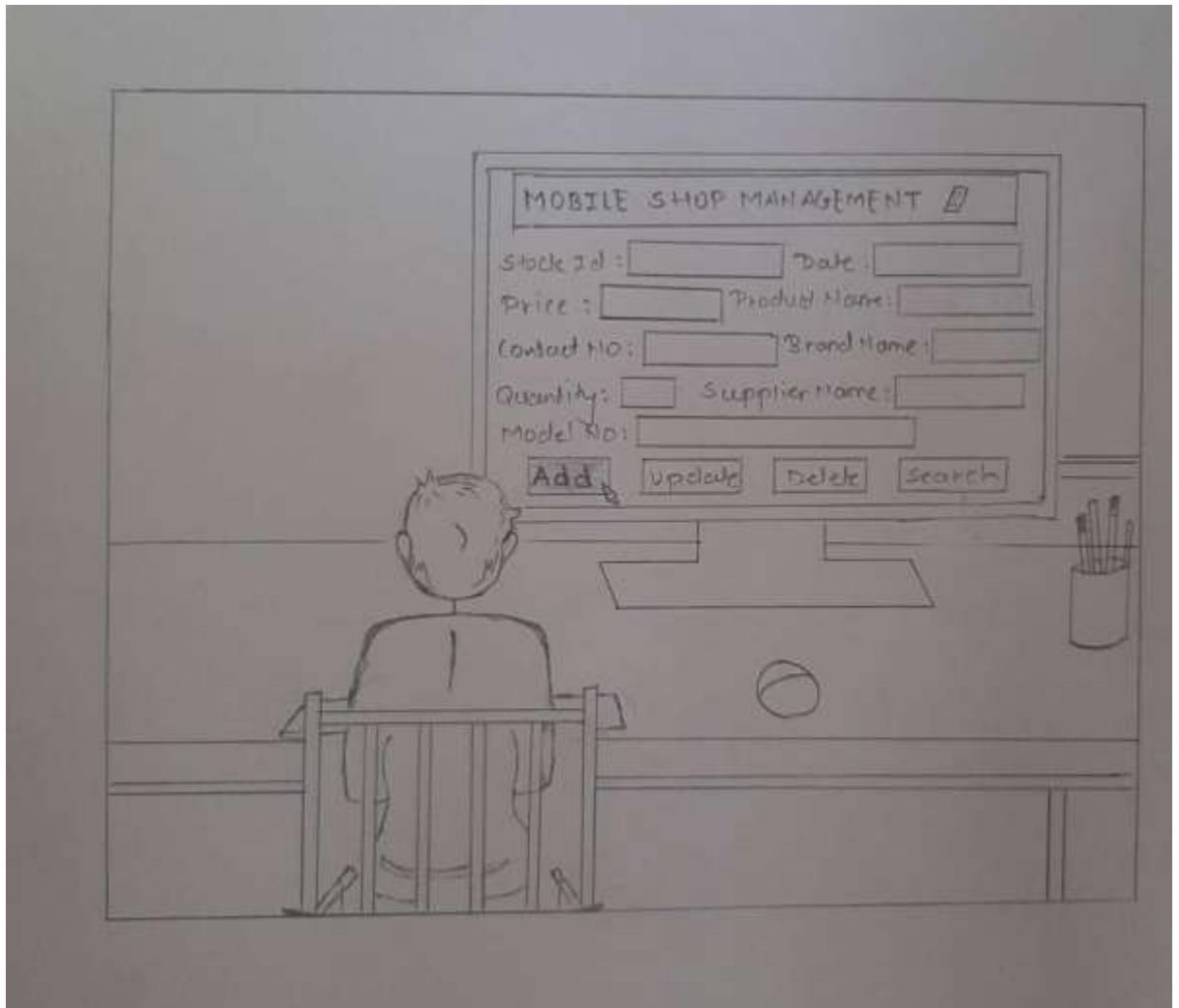







Story Description: Conversation between customer and cashier.

- After selecting the desired mobile, the customer proceeds to the cashier for bill payment. The salesperson forwards the customer's order to the cashier for billing. The customer engages in a conversation with the cashier regarding the billing process. The cashier asks for the customer's name and contact number to fill in the bill details. The customer requests a discount, to which the cashier assures them that a reasonable discount will be applied. The customer inquires about the availability of an EMI scheme for purchasing mobile phones, but the cashier apologizes, stating that it is currently unavailable. Next, the cashier asks the customer about their preferred payment method, whether it is cash or online. The customer opts for cash payment. The cashier generates the bill, and the customer proceeds to pay it. Once the payment is made, the cashier hands over the bill receipt to the customer, who takes the receipt along with the mobile's packed bag and departs from the shop.

sketch

➤ Wireframes

Frame 1



Employee

Stock

Billing


Employee

Serch

Employee ID	<input type="text"/>	Joining Date	<input type="text"/>
Name	<input type="text"/>	Contact No.	<input type="text"/>
Address	<input type="text"/>	Salary	<input type="text"/>

Employee ID	Name	Address	Joining Date	Contact No.	Salary
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Stock




EMPLOYEE DETAILS

STOCK

BILLING

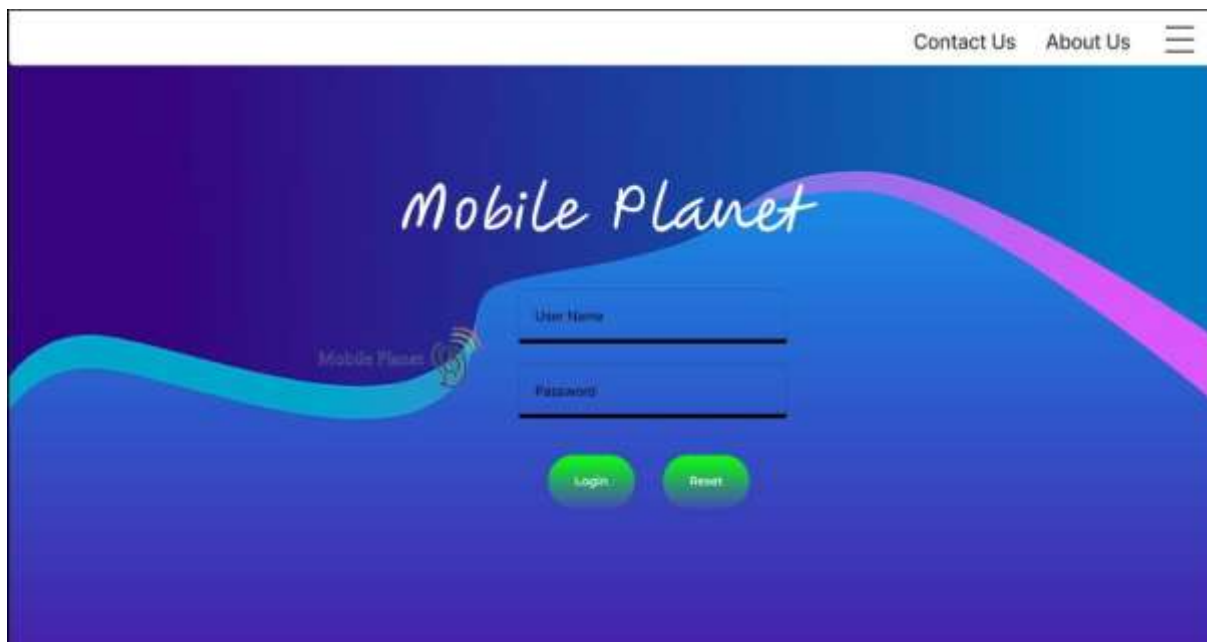
STOCK



Stock Id:	<input type="text"/>	Date:	<input type="text"/>	Price:	<input type="text"/>
Product Name:	<input type="text"/>	Contact No:	<input type="text"/>	Brand Name:	<input type="text"/>
Quantity:	<input type="text"/>	Supplier Name:	<input type="text"/>	Model No:	<input type="text"/>

Stock_Id	Date	Product_Name	Qty	Brand_Name	Model_No	Price	Supplier_Name	Contact_No
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➤ Screen



EMPLOYEE

STOCK

BILLING

BILLING

SrNo.	Product Id	Product Name
1	3832	Realme C12

EMPLOYEE

STOCK

BILLING

BILLING

Orders :

3832 Realme C12 1

Invoice No. :

Bill Date :

Customer Name :

Contact No. :

Address :

Total Cost :

Discount :

Other Charges :

TOTAL :

Product Id	Product Name	Qty	Price

EMPLOYEE

STOCK

BILLING

BILLING

Orders :

3832 Realme C12 1

Invoice No. :

Bill Date :

Customer Name :

Contact No. :

Address :

Total Cost :

Discount :

Other Charges :

TOTAL :

Product Id	Product Name	Qty	Price
1	Realme C12	1	10000

Mobile Planet

EMPLOYEE

STOCK

BILLING

BILLING

Invoice No. : Bill Date :

Customer Name : Contact No. : Discount :

Address : Total Cost : Other Charges :

TOTAL :

Bill Successfully Saved

Okay

Product Id	Product Name	Qty	Price
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INVOICE

Invoice No. : 345425 Bill Date : 22-3-2023

Customer Name : Abc

Address : Abc

Contact No. : 9857484464

Total Cost : 10000

Discount : 100

Other Charges : 0

TOTAL : 9900

EXIT

THANK YOU...

Test Case

Test Cases	Prerequisites	Precondition	Test Steps	Expected Results	Actual Results	Pass/Fail
T01	Data Insertion	Ensure proper data insertion.	<ol style="list-style-type: none"> 1. Open the Application 2. Click on Stock 	Select Stock Details should appear in textbox	As Expected	Pass
T02		Ensure proper data insertion.	<ol style="list-style-type: none"> 1. Enter valid values in required field. 2. Click add button 	data added successfully and its message should be shown	As Expected	Pass
T03		Ensure proper data insertion.	1.If any field is empty and you are trying to adding it	Error Message Display	As Expected	Pass
T04		Ensure proper data insertion.	1.If the Entered Quantities are characters	Show the Warning "Please Enter valid Quantity"	As Expected	Pass
T05	Data Updating	Verify accurate data updating.	<ol style="list-style-type: none"> 1.Select any record 2.Apply change 3.Click on "Update" button 	That specific record should be updated and Shown message "Data successfully updated"	As Expected	Pass

T06	Remove certain Smart Phone/Product from your inventory	Verify Data Deletion Correctly	1.Click on Delete Record/Model	Show the confirmation Message that Products successfully deleted	As Expected	Pass
T07		Examine data updates properly.	1. After deleting a product, input its ID.	" Product is not found ." message should appear.	As Expected	Pass
T08	Remove the contain in textbox	Clear the textbox	1.Click on the "Reset" button.	Clear the all textbox	As Expected	Pass

Test Cases	Prerequisites	Test Scenarios	Test Steps	Expected Results	Actual Results	Pass / Fail
T01	Add item to cart	Add a mobile phone to the cart.	1.Select a mobile phone from the available options. 2.Click on the "Add to Cart" button.	The selected mobile phone is added to the cart.	As Expected.	Pass
T02	Checkout	Complete the purchase by checking out the items in the cart.	1.Click on the "Checkout" button.	The system calculates the total amount to be paid and displays a payment interface.	As expected	Pass
T03	Add new mobile phone to inventory	Add a new mobile phone to the inventory.	1.Click on the "Add" button. 2.Enter the details of the new mobile phone. 3.Click on the "Save" button.	The new mobile phone is added to the inventory.	As expected	Pass
T04	Delete mobile phone from inventory	Delete a mobile phone from the inventory.	1.Search for the mobile phone to be deleted. 2.Select the mobile phone from the search results. 3.Click on the "Delete" button.	The selected mobile phone is removed from the inventory.	As expected	Pass
T05	Search for a mobile phone	Search for a specific mobile phone in the inventory.	Enter the search criteria (e.g., model name, brand) in the search field. Click on the "Search" button.	The system displays a list of mobile phones that match the search criteria.	As expected	Pass

T06	<ul style="list-style-type: none"> Update mobile phone details 	Update the details of a mobile phone in the inventory.	1.Search for the mobile phone to be updated. 2.Select the mobile phone from the search results. 3.Click on the "Update" button. 4.Modify the details of the mobile phone. 5.Click on the "Save" button.	The details of the selected mobile phone are updated in the inventory.	As expected	Pass
T07	Reset the cart	Clear the items in the cart.	Click on the "Reset" button.	The cart is emptied, and no items are displayed.	As expected	Pass
T08	Print the invoice	Print the invoice of the purchased items.	Click on the "Print" button.	The system generates a printable invoice with the details of the purchased items.	As expected	Pass
T09	Add item to cart with insufficient stock	Attempt to add a mobile phone to the cart when there is insufficient stock available.	1.Check the stock quantity of the mobile phone to be added. 2.If the stock quantity is zero or less, proceed to add the item to the cart. 3.Click on the "Add to Cart" button.	The system should display an error message indicating that there is insufficient stock for the selected mobile phone and prevent the item from being added to the cart.	The system displays an error message as expected	Pass
T10	Update mobile phone details with invalid input	Attempt to update the details of a mobile phone with invalid input.	1.Search for the mobile phone to be updated. 2.Select the mobile phone from the search results. 3.Click on the "Update" button. 4.Modify the details of the mobile phone with invalid data (e.g.,	The system should display an error message indicating that the input is invalid and prevent the update	As Expected	Pass

Test Cases ID	Test Case Description	Precondition	Test Steps	Expected result	Actual Result	Pass/Fail
TC001	Employee login	Employee is Logged in the System.	1.Enter valid employee credentials(username and password). 2.click on the login button.	The employee should be successfully logged into the system and redirected to the dashboard inventory.	As Expected	Pass

				or home page.		
TC002	Invalid Login Attempt	None	1.Enter invalid employee credentials (incorrect username or password). 2.Click on the login button.	The system should display an appropriate error message and prevent access to the system.	As Expected	Pass
TC003	Add a New Employee information in System	Logged in as an employee with appropriate permissions.	1.Fill in all the required fields (Name ,Address ,Employee ID, Contact No ,Joining Date , Salary, etc.). 2.Click on the "Add" button.	The new Employee detail should be successfully added to the System	As Expected	Pass
TC004	Update Employee Information in System.	Logged in as an employee with appropriate permissions	1.Select Employee to update its details. 2.Modify the desired fields (Name, Employee ID, Address, Joining Date ,Contact No, Salary, etc.) 3.Click on the "UPDATE" button.	The updated details of the Employee should be successfully saved in the System.	As Expected	Pass
TC005	Delete Employee information in System.	Logged in as an employee with appropriate permissions.	1.Click on delete Button. 2.That specific record should be deleted and message should be shown.	That specific record is deleted and deleted message is shown.	As Expected	Pass
TC006	Reset The Employee Details	Logged in as an employee with appropriate Permissions.	1.Select the Reset button . 2.Click on Reset That Specific Details Should be Reset.	The Specific employee details should be Reset Successfully.	As Expected	Pass
TC007	Search For Employee Details	Logged in as an employee with appropriate permissions. Employee detail is available.	1Click on the Search button . 2.Search for the employee details.	The system should be shown the employee detail Successfully.	As Expected	Pass

TC008	Employee Contact number	Logged in as an employee with appropriate permissions.	1.Select the employee . 2.Click on the Contact no. button To add the no. of employee.	The system should be Successfully Add the employee Contact no.	As Expected	Pass
TC009	Update Employee new Address	Logged in as an employee with appropriate permissions.	1.Select the employee . 2.Click on the address 3.Click on Update button for update the employee address.	The System should be successfully update the employee address.	As Expected	Pass
TC010	Update Employee Profile	Logged in as an employee with appropriate permissions.	1.Edit the employee's profile details such as name, contact information, or any other relevant information. 2.Click on the "Save" button.	The employee's profile details should be successfully updated and saved in the system.	As Expected	Pass

Future Enhancements

Artificial Intelligence and Machine Learning Integration: Incorporating AI and ML capabilities into a mobile management system can provide advanced analytics, predictive insights, and automation. This can help identify patterns, detect anomalies, optimize device performance, and enhance security by proactively identifying potential threats.

Internet of Things (IoT) Device Management: As the number of IoT devices continues to grow, integrating IoT device management capabilities into a mobile management system will become essential. This enhancement will enable organizations to centrally manage and monitor both mobile devices and IoT devices, ensuring seamless connectivity and security across the entire ecosystem.

Enhanced User Experience: Focus on improving the user experience for both administrators and end-users. This includes intuitive interfaces, simplified workflows, and self-service options, reducing the complexity of device management tasks and empowering users to resolve common issues independently.

Augmented Reality (AR) Support: With the increasing adoption of AR in various industries, integrating AR support within the mobile management system can offer remote assistance, training, and troubleshooting capabilities. This enhancement can improve productivity and reduce downtime by providing real-time guidance and collaboration features.