Software Requirement Specification

[SRS – Sample]

Project ID & Name	nop-Cart		
Project Manager	Md. Mohoiminul Islam Chowdure		
Customer Request Reference			
Prepared By	Arittra Das	Date	5.13.2024
Reviewed By	Tawfiqur Rahman	Date	5.13.2024

Prepared by Date Reviewed by Date: Revision History

Ver. No	Date	Prepared By Approved By	List of changes from the Previous
0.1			
0.2			

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1. Requirement Scope Summary

Functional Requirements Identification

Module Name	SRS ID	UI & Reports name
E-commerce app	1.1	User Login
	1.2	User Homepage
	1.3	User Payment

Functional Requirement Details

3.1 SRS -1.1 User Login
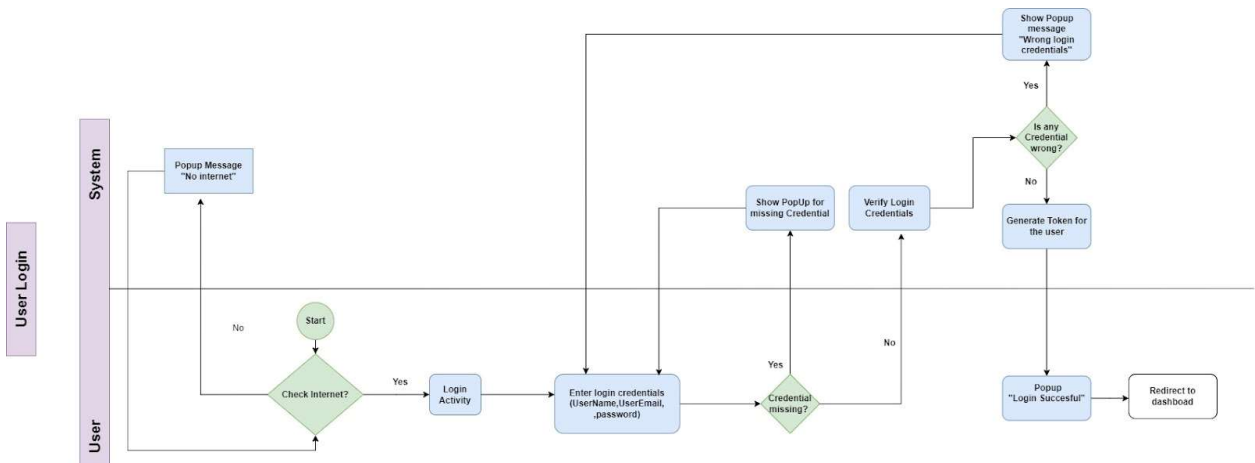
3.1.1 Process Flow - User Login

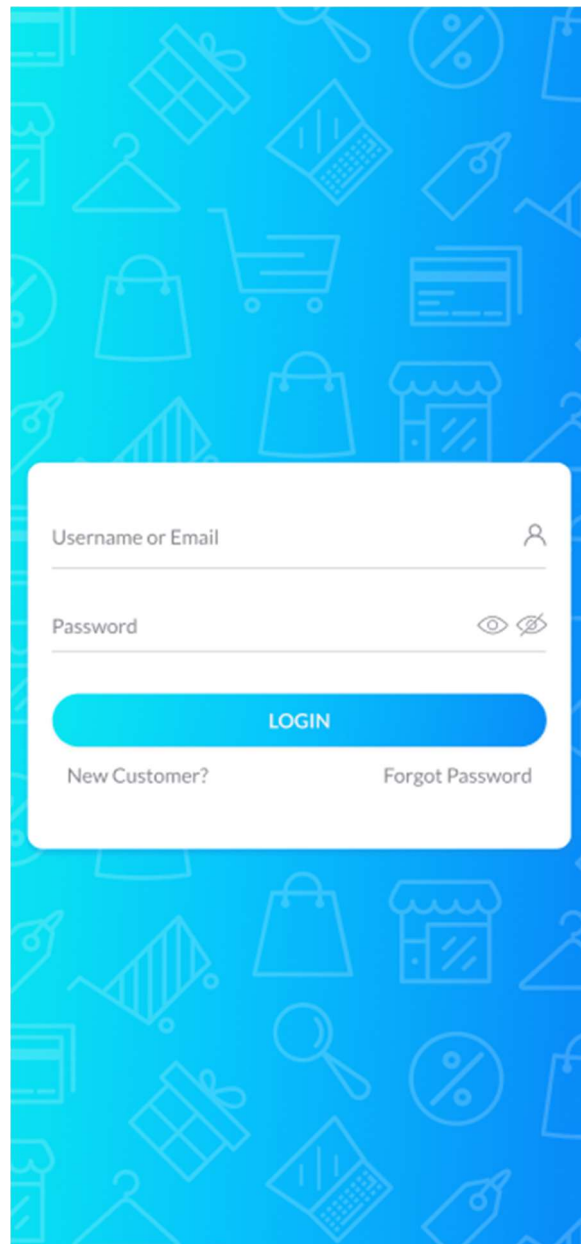*Figure - Process Flow - User Login*

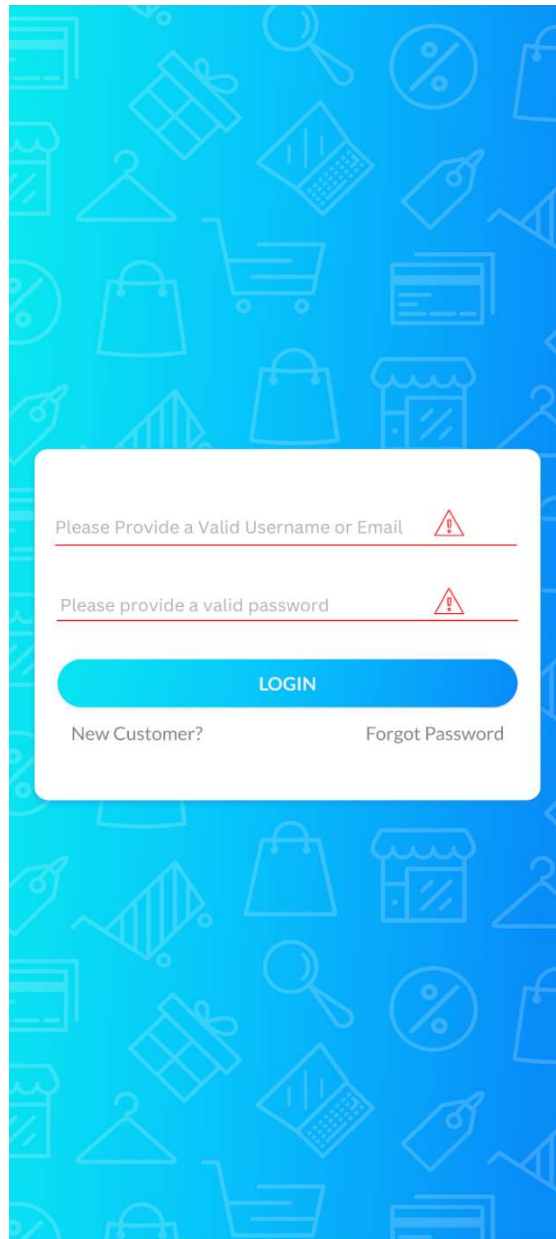### 3.1.2 User Interface- User Login

Figure - User Login UI - 1

Figure - User Login UI - 2

3.1.3 RSD – User Login

SRS ID	SRS1.1
SRS Title	User Login
Proposed Requirement	1. Users will be able to log in via this UI into the system.
Precondition	1. The user must have a valid username/useremail, password to login into the system.

Business rules	1.The user will be able to log in with a valid authorized username or user email, Password.
	2. Username
	    a. Required
	    b. Free text field
	3. Useremail
	    a. Required
	    b. Free text field
	4. Password
	    a. Required
	    b. Free text field
	    c. This must be displayed as encrypted
	    d. Password length must be greater than 7 characters.
	    e. Password character must hold a special character.
	    f. Users will be able to view the password by clicking the view icon.
	
	5. Internet Connection Check:
	    a. When the user launches the application, it checks whether there is an active internet connection.
	    b. If there is no internet connection, a popup notification appears, informing the user to reconnect to the internet.

	6. Remember Me Option
	    a. Users have the option to select "Remember me" during login.
	    b. If selected, valid usernames or user emails along with passwords are stored locally on the device.
	
	7. Credential Validation:
	    a. When the user fills in their credentials (username or user email and password), the application validates them.
	    b. If the credentials are incorrect, a popup notification informs the user, and they are redirected back to the login activity.
	
	8. Guest Login
	    a. Provide a "Guest Login" button on the login screen.
	    b. When the user selects this option, they can access limited features. without entering any credentials.
	
	9. Successful Login
	    a. If the credentials are correct, the user receives a JWT (JSON Web Token) as a secure authentication token.
	    b. The JWT is saved within the application until the user logs out.
	
	10. Dashboard Redirection
	    a. After successful login, the user is redirected to the homepage.

Post-Condition	1. Authorized users will be able to access the dashboard
Requirement Collection Method	Document Analysis, Existing system Analysis, Requirements gathering session.
Priority	High

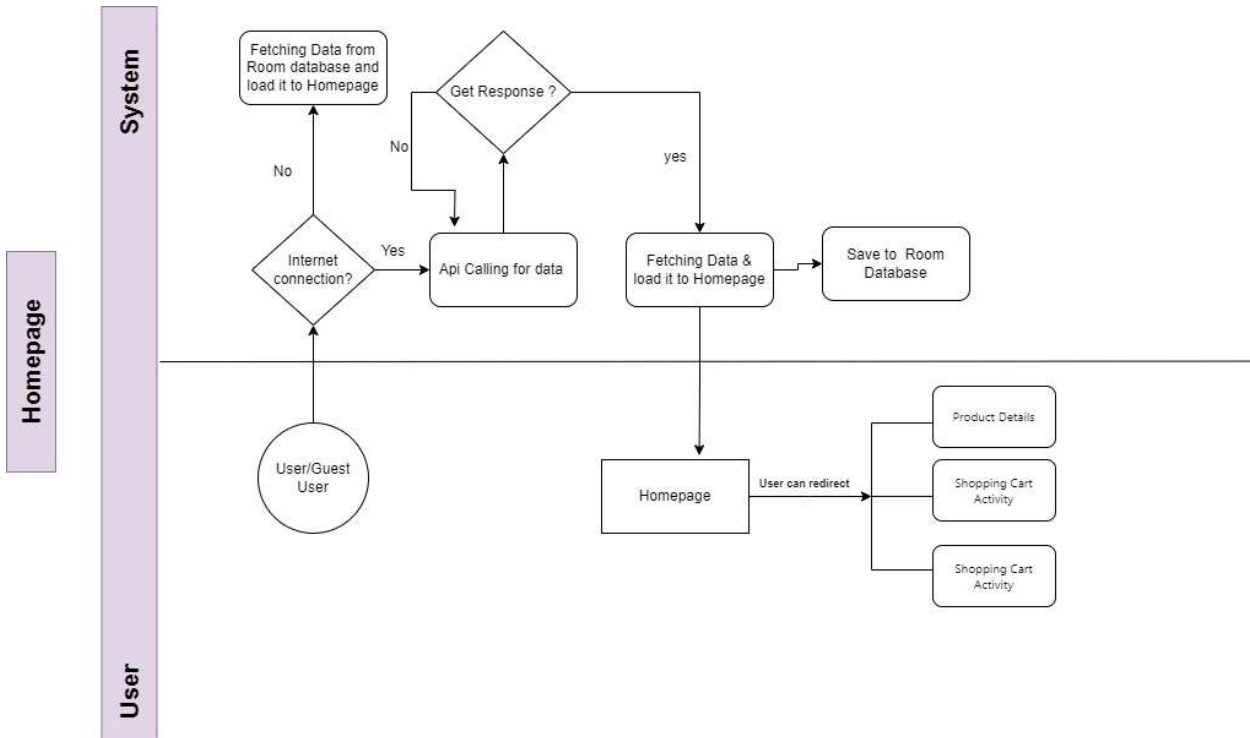## 3.2 SRS – User Homepage

3.2.1 Process Flow – User Homepage

Figure - Process Flow - Homepage

3.2.2 User Interface – User Homepage

3.2.3 RSD – User Homepage

SRS ID	SRS1.2
SRS Title	Homepage
Proposed Requirement	1. Guest and authorized users will be able to add products to their shopping lists and view their shopping carts.
Precondition	1. The app requires an active internet connection.

Business rules	1. Dashboard Features
	    a. The dashboard displays a carousel of product images.
	    b. Users will be able to view a horizontal View showing the product categories, best-selling products, and featured product activities.
	
	2. Guest and Authorized users
	    a. Users will be able to easily access the homepage and they can view. their shopping cart activity.
	
	3. Performance
	    a. Homepage should be optimized for loading images for smooth. performance.
	    b. Use caching and efficient data retrieval techniques.
	
	4. Security
	    a. Ensure secure communication (HTTPS) for user data.
	    b. Protect against common security threats

Requirement Collection Method	Existing system Analysis, Requirements gathering session.
Priority	Medium

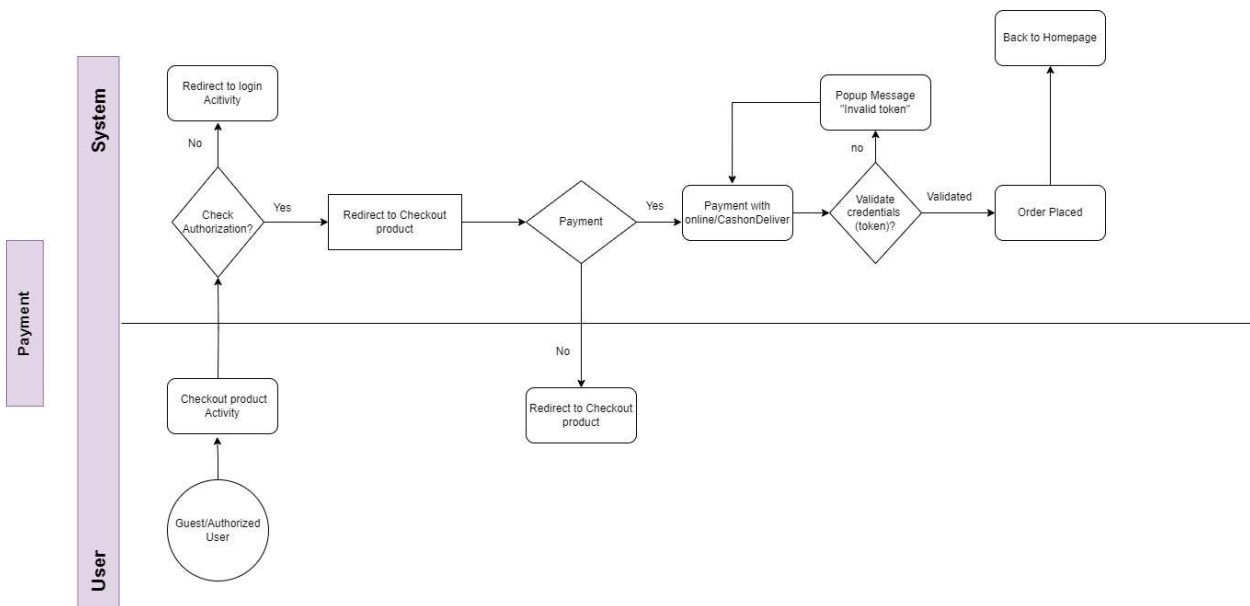## 3.3 SRS - Payment

3.3.1 Process Flow - User Payment

Figure - Process Flow - Payment

3.3.2 User Interface – User Payment

Figure - User Checkout Products

3.3.3 RSD – User Payment

SRS ID	SRS1.3
SRS Title	Payment
Proposed Requirement	1. Users will be able to log in via this UI into the system.
Precondition	1. All users have to be authorized

Business rules	1. Authorized Users:
	    a. All authorized users should be able to make payments or purchase.
	       items.
	
	2. Non-Authorized Users:
	    a. non-authorized users (those who are not logged in) should be
	       redirected to a login activity.
	    b. This ensures that only authenticated users can access payment.
	       features.
	
	3. Payment Flow:
	    a. Validate their credentials (e.g., session, token, or cookies).
	    b. Allow them to proceed with the payment process.
	
	4. Payment Methods
	    a. There should be two types of payment methods.
	       Cash On delivery and Bkash payment.
	    b. Users should be able to add their payment methods.

Post-Condition	. Redirect to the Homepage and store info in room database

Requirement Collection Method	Existing system Analysis, Requirements gathering session.
Priority	medium