Darshan University

A Project Report on

"Diary Management System"

Under the subject

Software Engineering (2101CS503)

B. Tech, Semester – 5

Computer Science & Engineering Department

Submitted By

Student Name: Kuldeep Sonara   Enrollment No.: 21010101185

Academic Year

(2023-2024)

Internal Guide   Dean-DIET

Prof. Devangi Kotak   Dr. Gopi Sanghani

Darshan University   Darshan University

Computer Science & Engineering Department
Darshan University

DECLARATION

We hereby declare that the SRS, submitted along with the **Software Engineering (2101CS503)** for entitled **"Dairy Management System"** submitted in partial fulfilment for the Semester-5 of **Bachelor Technology (B. Tech)** in **Computer Science and Engineering (CSE)** Department to Darshan University, Rajkot, is a record of the work carried out at **Darshan University, Rajkot** under the supervision of **Devangi Kotak** and that no part of any of report has been directly copied from any students' reports, without providing due reference.

(Kuldeep Sonara)

Student's Signature

Date: _____

Computer Science & Engineering Department
Darshan University

CERTIFICATE

This is to certify that the SRS on **"Dairy Management System" has** been satisfactorily prepared by **Kuldeep Sonara** (**21010101185**) under my guidance in the fulfillment of the course **Software Engineering (2101CS503)** work during the academic year 2023-2024.

Internal Guide
Prof. Devangi Kotak
Darshan University

Dean-DIET
Dr. Gopi Sanghani
Darshan University

ACKNOWLEDGEMENT

I wish to express my sincere gratitude to my project guide Prof.Devangi Kotak and all the faculty members for helping me through my project by giving me the necessary suggestions and advices along with their valuable co-ordination in completing this work.

I also thank my parents, friends and all the members of the family for their precious support and encouragement which they had provided in completion of my work. In addition to that, I would also like to mention the Darshan University personals who gave me the permission to use and experience the valuable resources required for the project from the University premises.

Thus, in conclusion to the above said, I once again thank the faculties and members of **Darshan University** for their valuable support in completion of the project.

Thanking You

Kuldeep Sonara

ABSTRACT

The Dairy Management System is customized Solution designed to streamline and digitize the daily operations of dairy products suppliers. By replacing traditional manual processes with digital framework , this system to enhance efficiency and reduce humans efforts. Key Features include user login for secure access, one-click Product search, and admin login for system monitoring, customer can view their order, request new order, and Raise query or issues. The admin can generate various reports for analysis. This system revolutionizes dairy supply management, improving inventory control, order tracking, and customer satisfaction.

Its implementation transforms manual processes into a seamless digital experience, optimizing dairy product supply chains

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1 Introduction

1.1 Product perspective

This project basically updating a manually processes of dairy products Supplying system in to full digital internet-based application so that users can track own account and track monthly dairy products and monthly expenses on it an d etc.. This version is controlled all dairy products quality and give satisfaction to customers.

1.2 Product features

1.2.1 There are three different users who will be user this product :

- Company of suppliers have a admin login.
- Seller's who produce a product and Supplies or sell to company.
- Customers who order a product to company.

1.2.2 The features that are required for amine are:

- Control a Supplies of productas.
- Monitoring of sell and buy of product's.
- Monitoring of quality of products.
- Mine access of Customer and Producers Accounts.
- Full software's Control for customization and listing a product's.
- Add new products and delete also. And cerate catalogs of products.

1.2.3 The features that are required for a seller's :

- Manag a sell and monitoring quantity.
- Dailey payment on sells products.
- Time alerts for collection of milk and other products.
- Account managing and creating.

1.2.4 The features that are required for a customer's:

- Order taking.
- Monthly plan for milk and others, order for batter productivity.
- Account managing and creating.

1.3 Functional Requirement

1.3.1 Company

- **Add products :** new product listing must in database.
- **Update products :** any change in product detail, they must be update in database.

- **Delete products :** wrong or old product remove in system.

- **Producer management :** To manage thy password and Id and username. And system track and record thy producers.

- **Bar-code :** Add bar-code airy unique products to identify and they bar-code to identify seller and they location.

- **Quality Check:** applying quality Check for every region Milk.

- **Taking:** Track milk trunks form producers to mine facility. And after that track they delivery to customers.

- **Support:** add support Section to producers and Customers and workers also.

- **Payments:** payment management for producer and collect from customer's.

- **Salary magnet:** System can management form salary's to employees and worker's.

1.3.2 Seller's

- **Account :** Mange they own account.

- **Time Saddling:** time alerts for collect of milk.

- **Sell's and payment:** manage they sells and payments of sells daily. And they detail must be add into databases.

- **Support:** connect to company and solve a they problems.

1.3.3 Customer:

- **Orders :** new order must be add in database.

- **Taking:** user track they products.

- **Payment:** Track thy payment and Alert for monthly payment or daily payment.

- **Support:** add support system to solve they problem to company.

- **Search:** user can search products and catalogues

- **Account Management:** user can change any detail they can be update in databases and create a new account.

1.3.4 Usability:

- This UI is simple an essay to understand they fetcher's and no need to any special training. Supporting different language.

1.3.5 Security:

- Add layers of security for users info and other information.

1.3.6 Accurate:

- The orders stored and shows system immediate.

2 Design and Implementation Constraints

2.1 Use case diagram
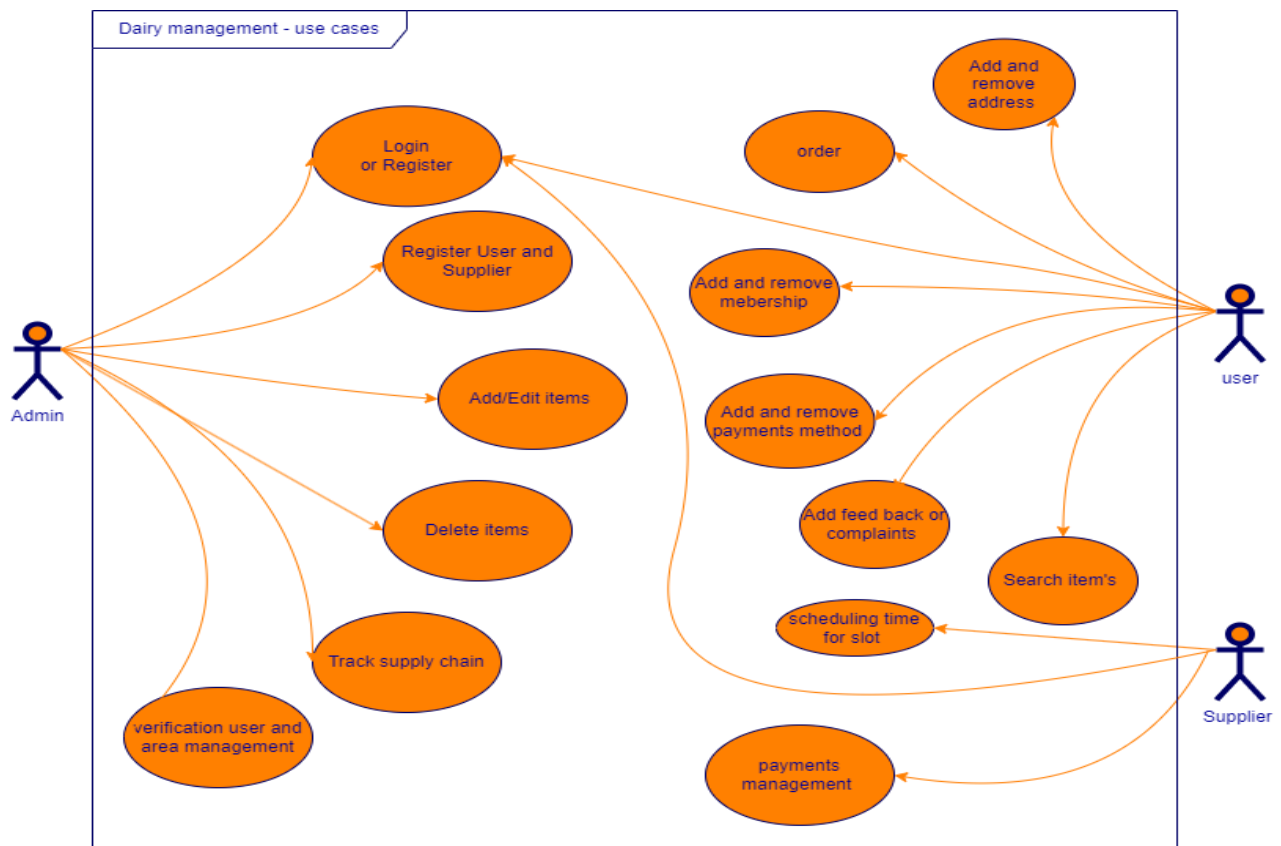
Figure 2.1-1 Use case diagram for Diary management system

2.2   Activity diagram and Swimlane diagram
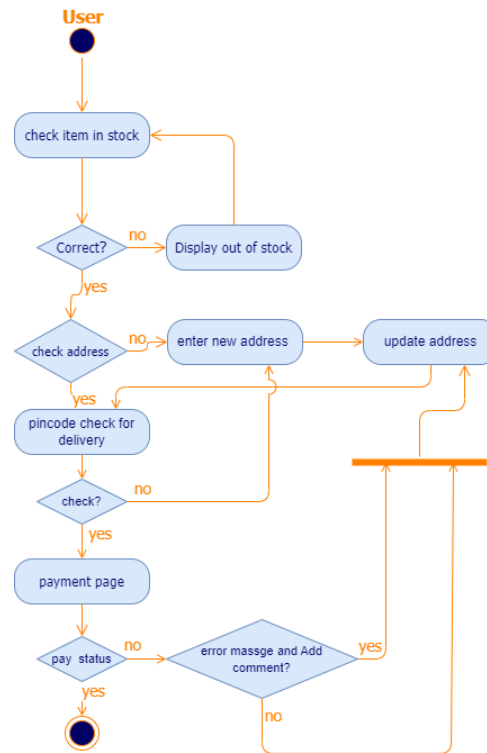
Figure 2.2-1 Activity diagram for bulling
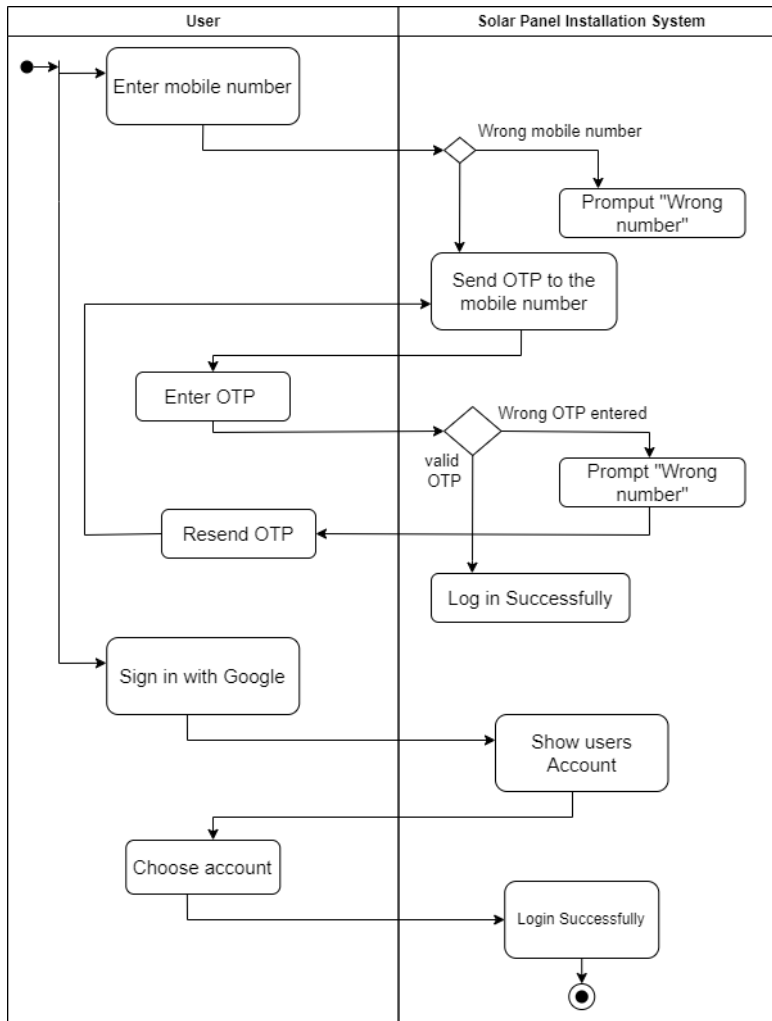
Figure 2.2-2 Swimlane diagram for supplies

2.3 Sequence diagram
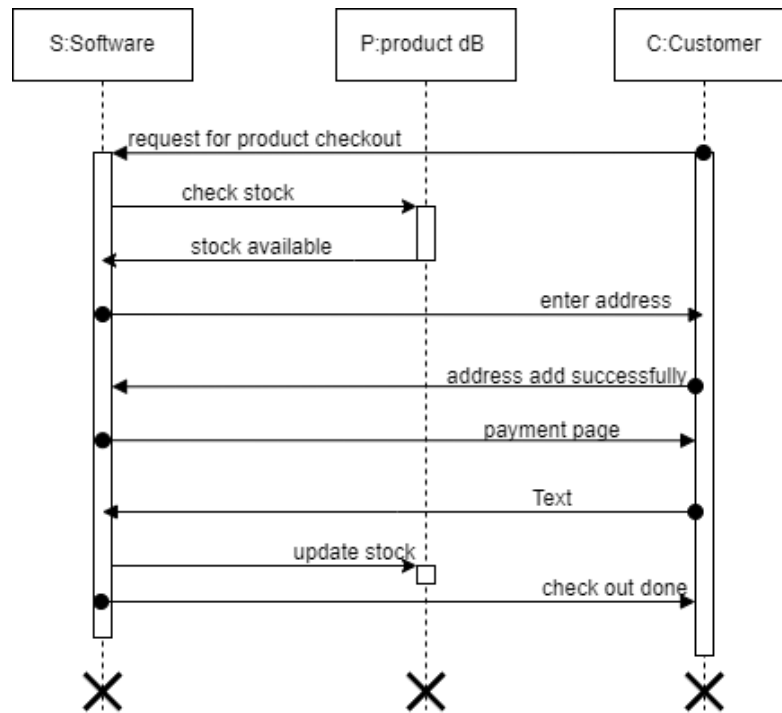
Figure 2.3-1 Sequence diagram for ordering

2.4 State diagram
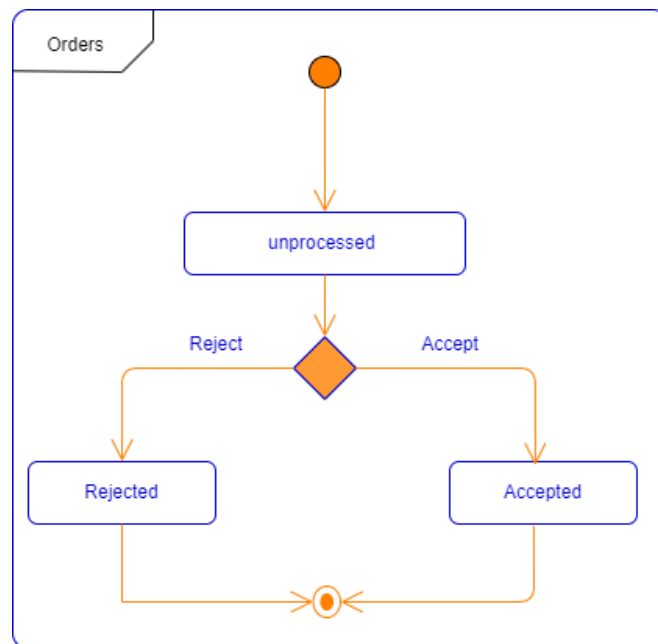
Figure 2.4-1 State diagram of ordering possessing
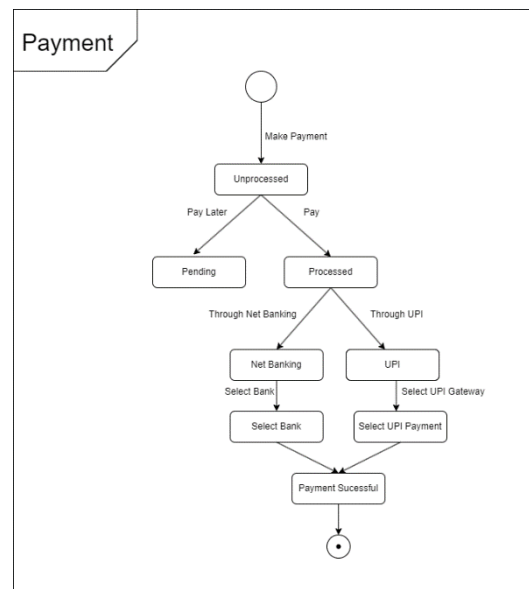
Figure 2.4-2 State diagram for Diary Management System

2.5 Class diagram
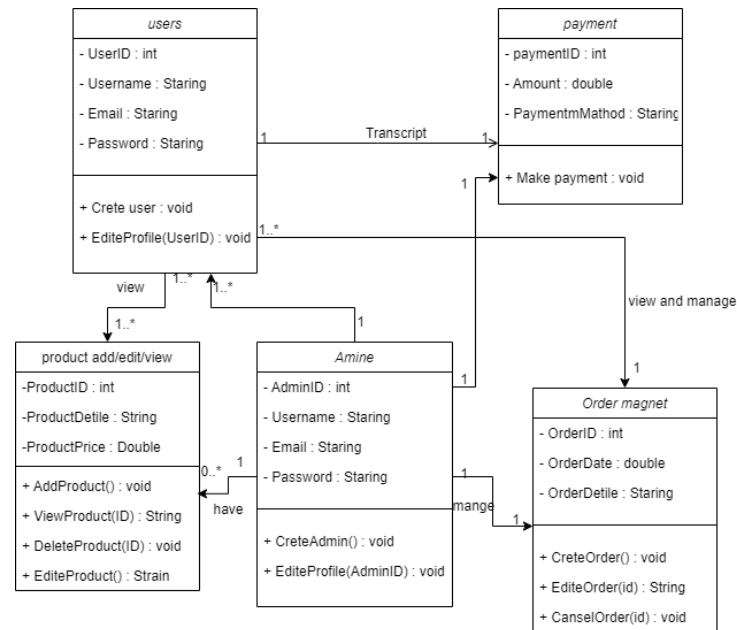
Figure 2.5-1 Class diagram for Diary management system

2.6 Data flow diagram

2.6.1 Context diagram (level-0)
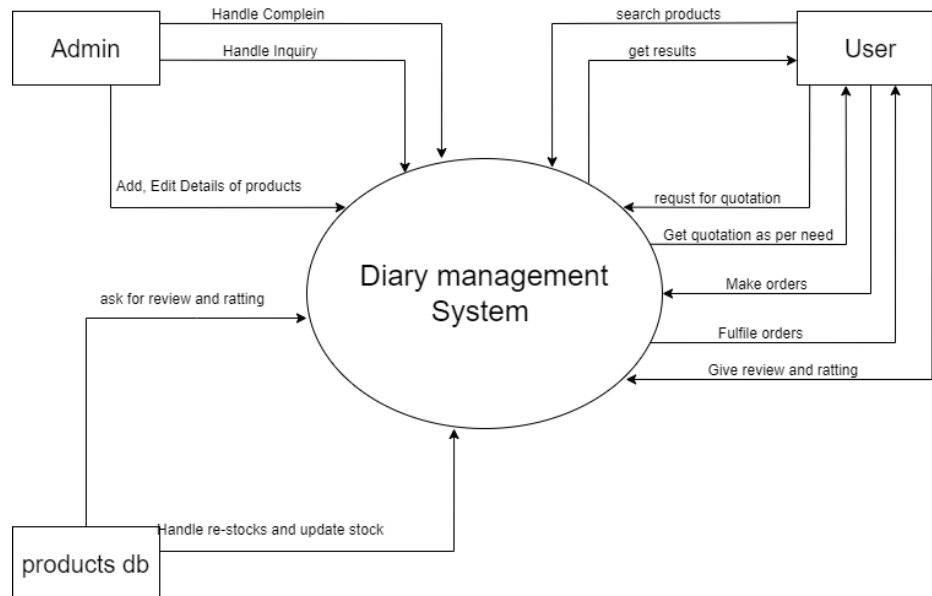
Figure 2.6-1 Context diagram for Diary management system

2.6.2 DFD Level-1
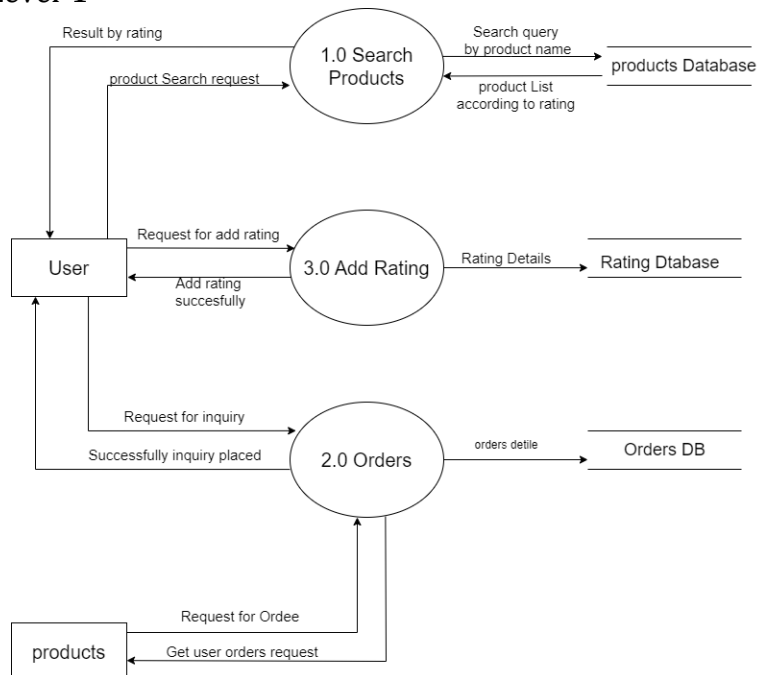
Figure 2.6-2 DFD level-1 for Diary management system

2.6.3 DFD Level-2
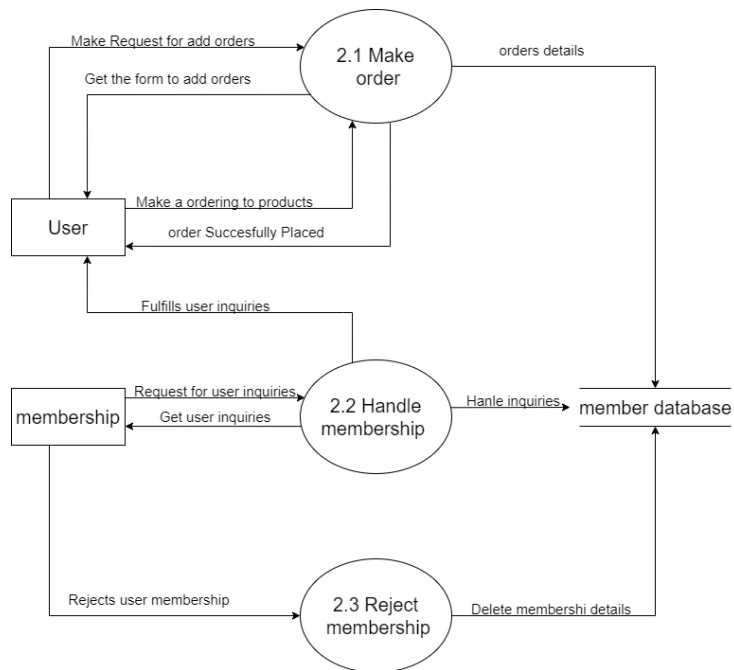
Figure 2.6-3 DFD level-2 for order for memberships

3 External interface requirement (Screens)

3.1 Screen-1: place Order

Figure 3.1-1 Screen-1: place Order

Purpose: This form to help please a user to please orders.

Table 3.1-1 Screen element of place Order

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Subtotal	text	M	1	Display amount to order without tex.
2	Tax	text	M	1	Display Tax on order.
3	Total	Text	M	1	Display total amount with tax.
4	Name	Text input	M	1	Enter your name to billing.
5	Email	Text Input	o	1	Enter your Email.
6	Phone	Text input	M	1	Enter your mobile number.
7	Add address	Text inpurt	M	1	Add address to delivery.
8	Continue	Button	M	1	Navigate to appropriate link's.
9	Back	Button	M	1	Navigate to proves page.

3.2 Screen-2: Product List

Figure 3.2-1 Screen-2: product list

Purpose: This page help to find products from product list

Table 3.2-1 Screen element of product list

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Product image	Image	M	1	Product image.
2	Product name	Text	M	1	Product name.
3	Product explanation	Text	M	1	Product explanation.
4	Links on card	Text	M	1	Product link on card click.

3.3 Screen-3: Add Product
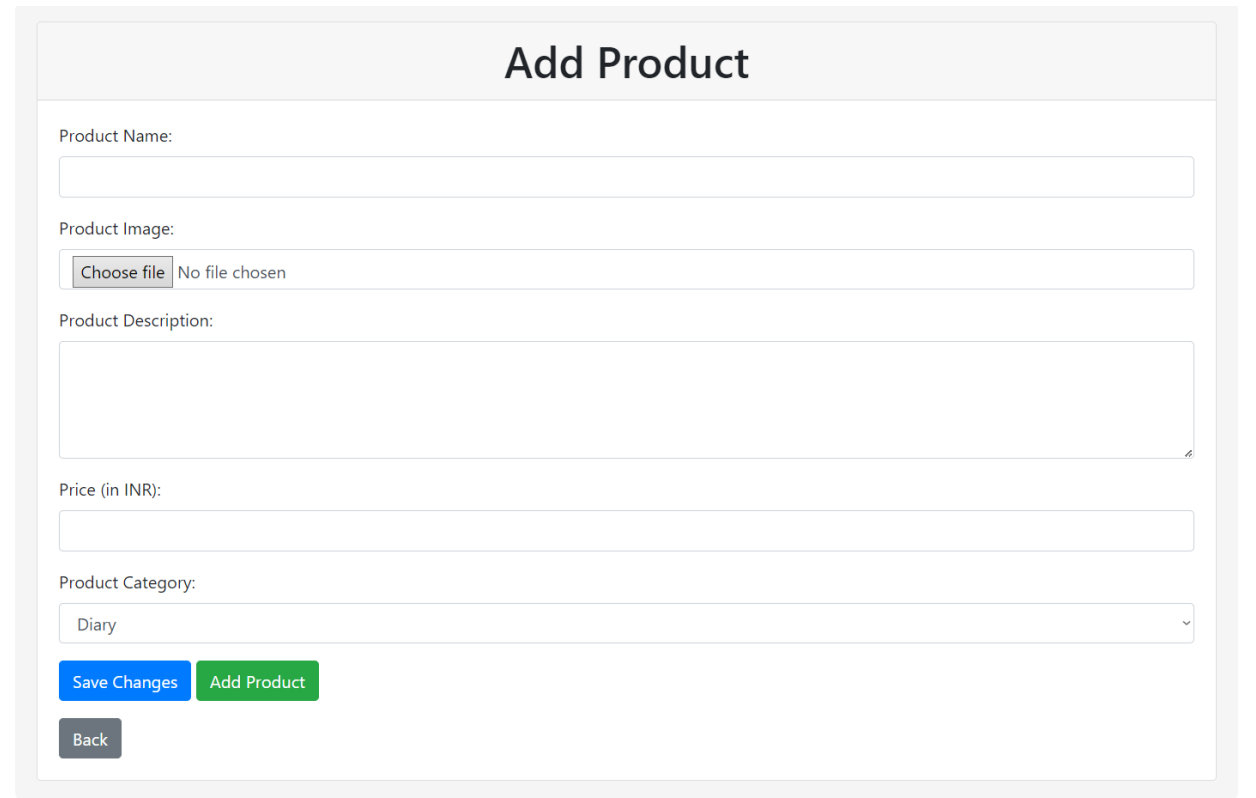
Figure 3.3-1 Screen-3: Add product pages

Purpose: This module will allow the system administrator to add, edit, update or delete borrowers of product. The admin can add borrower information and manage it.

Table 3.3-1 Screen element of Add product pages

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Product name	Text input	M	1	Enter a name of product.
2	Product image	Upload button	M	1	upload a image of product.
3	Product description	Text Area	M	1	Entera description of product.
4	Price(in INR)	Text input	M	1	Enter your Price of product.
5	Product category	Dropdown	o	1	Select product category.
6	Save charges	Button	M	1	Save charge in selcteted product not in new product.
7	Add product	Button	M	1	Navigate to final check screens.
8	Back	Button	M	1	Navigate to proves page.

4 Database design

List of Tables for diary management system :
- Address
- User
- Orders
- Drivers
- Payment
- Admin
- Suppliers

Table 4.1 : Adderss

Field Name	Datatype	Null	Constraint	Description
AddressID	int	Not Null	Primary Key	Auto Increment
userID	Varchar(50)	Allow Null	Foreign key	Reference of user table
SupplierID	Varchar(100)	Allow Null	Foreign key	Reference of Supplier table
State	Varchar(155)	Not Null	-	-
City	Varchar(155)	Not Null	-	-
Street/Area	Varchar(255)	Not Null	-	-
Houses No./Mine rode	Varchar(255)	Not Null	-	-
pincode	Varchar(100)	Not Null	-	-

Table 4.2 : User

Field Name	Datatype	Null	Constraint	Description
USerID	int	Not Null	Primary Key	Auto Increment
AddressID	int	Not Null	Foreign Key	Reference of Address table
Name	Varchar(255)	Not Null	-	-
emile	Varchar(50)	Not Null	-	-
Password	Varchar(100)	allow Null	-	-
PhoneNo.	Varchar(12)	Not null	-	-
Admin ID	int	Allow null	Foreign key	Reference of Admin table

Table 4.3: Orders

Field Name	Datatype	Null	Constraint	Description

OrderID	int	Not Null	Primary Key	Auto Increment
Userid	int	Not Null	Foreign key	Reference of user table
Order date	Datetime	Not Null	-	-
Driver id	int	Allow Null	-	-
Delivery Status	Varchar(10)	Not Null	-	-

Table 4.4: drivers

Field Name	Datatype	Null	Constraint	Description
DriverID	int	Not Null	Primary Key	Auto Increment
AdminID	int	Not Null	Foreign Key	Reference of Admin table
AddersID	int	Not Null	Foreign Key	Reference of Address table
Name	Varchar(100)	Not Null	-	-
Emile	Varchar(100)	Allow Null	-	-
phoneNo	Varchar(100)	Not Null	-	-

Table 4.5 : Payment

Field Name	Datatype	Null	Constraint	Description
PaymentID	Varchar(10)	Not Null	Primary Key	Auto Increment
OrderID	Varchar(10)	Not Null	Foreign Key	Reference of Booking Table
Amount	Float(10,2)	Not Null	-	-
PaymentType	Varchar(20)	Not Null	-	-
PaymentMathod	Varchar(100)	Allow Null	-	-
PaymentDate	Date	Not Null	-	-
Status	Varchar(10)	Not Null	-	-

Table 4.6 : Admin

Field Name	Datatype	Null	Constraint	Description
AdminID	int	Not Null	Primary Key	Auto Increment
adminName	Varchar(100)	Not Null	-	-
EmileId	Varchar(100)	Not Null	-	-
phoneno	Varchar(12)	Not Null	-	-

Table 4.7 : Supplier

Field Name	Datatype	Null	Constraint	Description
SupplierID	int	Not Null	Primary Key	Auto Increment
AdderssID	int	Not Null	Foreign key	Reference of Address table
name	Varchar(100)	Not Null	-	-
Admi id	int	Allow Null	Foreign key	Reference of Address table
phoneNo	Varchar(12)	Not Null	-	-
Emile	Varchar(50)	Not Null	-	

5 Stories and Scenario

5.1 Story-1: Book a Sloat

Story # *S1*	:	**As a** User, **I want to** order a item's **So that a** secure items for a me .
Priority	:	High
Estimate	:	XL
Reason	:	Delvlopmet of ordering page is some complex but this priority is vary high

Scenarios

Scenario# *S1.1*	:	User can order a items base on this order details and delivery details like address and contact number and get a delivery time of the day.
Prerequisite	:	Webpage of ordering should be launched properly
Acceptance Criteria	:	**Given:** Users to the ordering page. **When:** user correct the amount and delivery's address and contact details to get a delivery time of the day **Then** user will be navigated to the payment screen Display price of product. Display price of tax. Display total prices. Display delivery price. Display other chargers.

Scenario# *S1.2*	:	User can order a items base on this order details and delivery details like address and contact number and get a delivery time of the day.
Prerequisite	:	Webpage of ordering should be launched properly

Acceptance Criteria	:	**Given:** Users to the ordering page.
		When:
		   o user select a **future** date and time to deliver items.
		Then
		   o display a new date or time
		   o display massage to updates

Scenario# *S1.3*	:	User can order a items base on this order details and delivery details like address and contact number and get a delivery time of the day.
Prerequisite	:	Webpage of ordering should be launched properly
Acceptance Criteria	:	**Given:** Users to the ordering page. **When**: User Click "payment" button. **Then** : Shoew massge of enter a address. Select a payment methods.

5.2 Story-2:billing

Story # *S2*	:	**As a** User, **I want to** Generate a invoice in app **So that** bill get immediately.
Priority	:	Medium
Estimate	:	M
Reason	:	Invoice generation to get invoice using digital signature of owner

5.2.1 Scenario

Scenario# *S2.1*	:	User can get invoice using in software invoice generate fetcher's.
Prerequisite	:	Webpage of invoice download lode properly
Acceptance Criteria	:	**Given:** Users to the invoice download page . **When:** user click on navigate to invoice **Then** user will see the invoice And with there download butten, With there digital signature

Scenario# *S2.2*	:	User can get invoice using in software invoice generate fetcher's.
Prerequisite	:	Webpage of invoice download lode properly
Acceptance Criteria	:	**Given:** Users to the invoice download page . **When:** user can regenerate a invoice **Then** user can regenerate a invoice Whene error with previous invoices, And show error masshe or successful message.

Scenario# *S2.3*	:	User can get invoice using in software invoice generate fetcher's.
Prerequisite	:	Webpage of invoice download lode properly
Acceptance Criteria	:	**Given:** Users to the invoice download page . **When:** user can click on download button. **Then** user can dowenlode pdf file of there invoice. .

5.3 Story-3 :Login as user

Story # *S3*	:	**As a** user, **I want** login, **So that** I see my dashboard.
Priority	:	Low
Estimate	:	S
Reason	:	A login screen has option with user login .

5.3.1 Scenario 3

Scenario# S3.1	:	User can login using there user id and password.
Prerequisite	:	Webpage of login screen lodes properly.
Acceptance Criteria	:	**Given:** User can login to there dashboard **When:** user can login using there user id and passwords. **Then** user can login using there using id and passwords Display user id , Display password,

Scenario# S3.2	:	User can login using there user id and password.
Prerequisite	:	Webpage of login screen lodes properly.
Acceptance Criteria	:	**Given:** User can login to there dashboard **When:** user can not registered first display error message **Then** user can not registered first Display error message first to register, Navigate to registration diplay

Scenario# S3.3	:	User can login using there user id and password.
Prerequisite	:	Webpage of login screen lodes properly.
Acceptance Criteria	:	**Given:** User can login to there dashboard **When:** user can not fill not data properly **Then** display error message if user id not filled Display error message if password is not filed Display error massage if form is empty.

5.4 Story-4 :sloat booking

Story # S4	:	**As a** Supplier, **I want** Sloat booking, **So that** I need reservation to seal my items.
Priority	:	**Medium**
Estimate	:	L
Reason	:	Development of Sloat booking page to book a Slat of sale there item's.

5.5 Story-5 : users Dashborde

Story # S5	:	**As a** user, **I want** see my dashboard, **So that** I see my detail and handled data.
Priority	:	**Medium**
Estimate	:	L
Reason	:	Development of users dashboards to manage a data

5.6 Story-6: product page load

Story # *S6*	:	As a user, I want see the product page detail, So that I finding the mor about the detail.
Priority	:	Medium
Estimate	:	XL
Reason	:	Development of page Load to complex because they contains photos, price, reviews, and reflective products.

5.7 Story-7: Add membership

Story # *S7*	:	As a user, I want add new membership, So that I finding new membership plans and get the pricing.
Priority	:	Low
Estimate	:	S
Reason	:	Development of add new membership to conations a pricing values payments listed

5.8 Story-8: add new payment method

Story # *S8*	:	As a user, I want add new payment methods, So that I finding new payments method.
Priority	:	Low
Estimate	:	L
Reason	:	Development of add new Payments method to save data to order much faster.

5.9 Story-9: order history

Story # *S9*	:	As a user, I want see my order history, So that I need to find orders history to fond older order.
Priority	:	Low
Estimate	:	L
Reason	:	Development of order history page.

5.10 Story-10: payment timings

Story # *S10*	:	As a supplier, I want see my payment timings, So that I need to find my payment.
Priority	:	High

Estimate	:	XL
Reason	:	Development of payments they see payments are get or not or which time are I get payment.

6 Test cases

Project Name:	Dairy management system	Test Designed by:	Kuldeep Sonara
Module Name:	Order	Test Designed date:	27-08-2023
Release Version:	1.0	Test Executed by:	Kuldeep Sonara
Test Case ID	TC_001	Test Execution date:	27-08-2023

Pre-condition: Web application should be accessible

Test Case ID	Test Title	Test Type	Description	Test Case ID
TC_001	Placing Order Successfully with valid details.	Functional	Order is successfully placed.	TC_001
TC_002	Failing to place order due to invalid details	Functional	Error message displayed.	TC_002
TC_003	Verify Order page elements	GUI	verify that all elements are availabe on order page.	TC_003

Test Case Title	Placing order successfully with vaild details
Test Type	Functional
Test Priority	High
Pre-condition	Web application should be accessible

Test Case Title	Login to web application with invalid credential
Test Type	Functional
Test Priority	Medium
Pre-condition	Web application should be accessible

Test Step	Test Case Description	Expected Result	Actual Result	Coumnets	Status	Data	buge ID
1	Access Web application URL	Access Order Page	The order page is displayed successfully.		Pass	https://accounts.google.com/ServiceOrder	
2	Verify Total Amount field	Correct total amount should be fetched from	Correct total Amount is fetched and displayed in the		Pass	Total Amount: 50000	

		the databas e and total amount amount field should not be editable	total amount field.				
3	Enter name in name field	Name field should be editable and should accept name in name field	Address field input is accepted		pass	Name: Kuldeep sonara	
4	Enter Mobile number in Mobile Number field	Mobile number field should be editable and should accept mobile number in mobile number field and the maximu m length of mobile number should be of 10 digit	Mobile number field input accepted with the length of 10 digit		Pass	Mobile NO.:7861874394	

5	Enter Email Address in Email address field	Email address field should be editable and should accept valid email address in email address field	Valid Email address in email address field is accepted.		pass	Email:kuldeepsonara6@gmail.com
6	Enter venue address in venue address field	Venue address field should be editable and should accept the venue details	Address field input is accepted		Pass	Venue Address:Swati park
7	Enter Date of event in Date of event field	Date of Event field should be editable and should accept mobile number in mobile number field	Date of event field input accepted .		Pass	Date:27/8/2023
8	Click on continue button	User should navigate to	User is navigated to payment page		Pass	

		payment page						
9	Click on back button	User should navigate to theme detail page	User is navigated to theme detail page.		Pass			

Test Case Title	Failing to plase order due to Invalid data
Test Type	Functional
Test Priority	Medium
Pre-condition	Web application should be accessible

Test Step	Test Case Description	Expected Result	Actual Result	Status	Comment	Data	Bug ID
1	Verify that User is not able to place order if total amount value is not fetched or incorrect value is fetched from the database.	Should be display an error message Something went wrong while fetching the information.	Display an error of amount value is not fetched or incorrect value is fetched.	Pass			
2	Verify that User is not able to navigate to payment page if User has leaved a name field blanked.	Set required field validation for name field	Performs a validation function	Pass			
3	Verify that User is not able to navigate to payment page if User	Set required field and maximum length validation	Performs a validation function	Pass			

	has leaved a mobile number field blanked or if mobile number length is not of 10 digit.	for mobile number field.					
4	Verify that User is not able to navigate to payment page if User has leaved a email address field blanked or if email address is not in valid format.	Set required field and email format validation for email address field.	Performs a validation function.	Pass			
5	Verify that User is not able to navigate to payment page if User has leaved a venue address field blanked.	Set required field validation for venue address field.	Performs a validation function.	Pass			
6	Verify that User is not able to navigate to payment page if User has leaved a Date field blanked.	Set required field validation for date field	Performs a validation function	Pass			

Test Case Title	Verify order page elements
Test Type	GUI
Test Priority	Medium
Pre-condition	Web application should be accessible

Test Step	Test Case Description	Expected Result	Actual Result	Status	Comment	Data	Bug ID
1	Launch application with the given url	The site launched properly	Site launched successfully	Pass		-	
2	Verify that the add order screen contains elements such as Total Amount, Name, Contact Number, Email Address,Venue Details,Event Date,Payment Page link and Theme detail page link.	All listed control displayed properly on the page	Add theme detail page loaded successfully	Pass			
3	Verify that cursor is focused on "Name" text box on the page load	Cursor is focused in Name textbox	Cursor focus in Name textbox	Pass			
4	Verify that tab functionality is working properly or not	When tab pressed cursor move in next control	Cursor moving in next control	Pass			
5	Verify that all the fields such as Total Amount, Name, Contact Number, Email Address,Venue Details,Event Date has a valid placeholder	All text fields have proper placeholder	All text fields have proper placeholder	Pass			
6	Verify that the labels float upward when the text field is in focus or filled (In case of floating label)	When field is focused or filled, label display on top of the filled	When field is focus or filled, label display on top of the filled	Pass	step required when fields with floating label		

7	verify that Payment link page link working properly	when click on Continue button load Payment page.	Theme list page working	Pass			
8	verift that Theme Detail page working properly	when click on back button load theme detail page	Theme detail page link working	Pass			

7 References

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- https://www.w3schools.com/php/default.asp
- https://www.javatpoint.com/um
- https://chat.chatgptdemo.net/
- https://www.scribd.com/document/440401779/Online-Doctor-Appointment-SRS-pdf
- https://staff.emu.edu.tr/alexanderchefranov/Documents/CMPE412/SRS.pdf