



# ESSENTIALS

## SOFTWARE ENGINEERING PROJECT

### Group Members:

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# PURPOSE

The purpose of developing this web application is to provide a platform to manage daily services like milk, newspaper, dairy products, poultry, or seafood items.

# WHY?

- The billing and delivery of daily essentials is managed manually by the sellers and buyers.
- Proper record of such transactions is not maintained.
- Presently there is no platform for managing these services altogether.



## EXISTING SYSTEMS

- Currently, there is no one-stop combined platform for these services.
- Usually, billing for these daily essential services is done manually.
- Proper record of the delivery of services is not maintained properly by the distributor and customer.

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# PROPOSED SYSTEMS

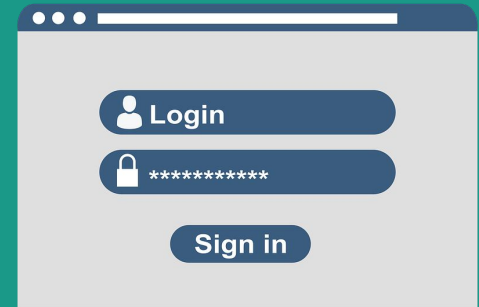
The proposed systems has following features:

- Login/Register
- Automated Billing
- Flexible and modifiable subscription
- Record maintenance of the subscription
- Chat Bot to place orders and add/modify subscriptions.



# Flow of the application

- 
- Every user will be first directed to the sign in/sign up page.
  - New users can register themselves via the sign up page.
  - Registered users can log in via the sign in page





## Sign up

**SIGN UP**

**Sign Up:** New users can register themselves.

ESSENTIALS Home Order Now Dashboard

Existing user? [Login here](#) New user? [Signup here](#)

## Sign in

Email

Password

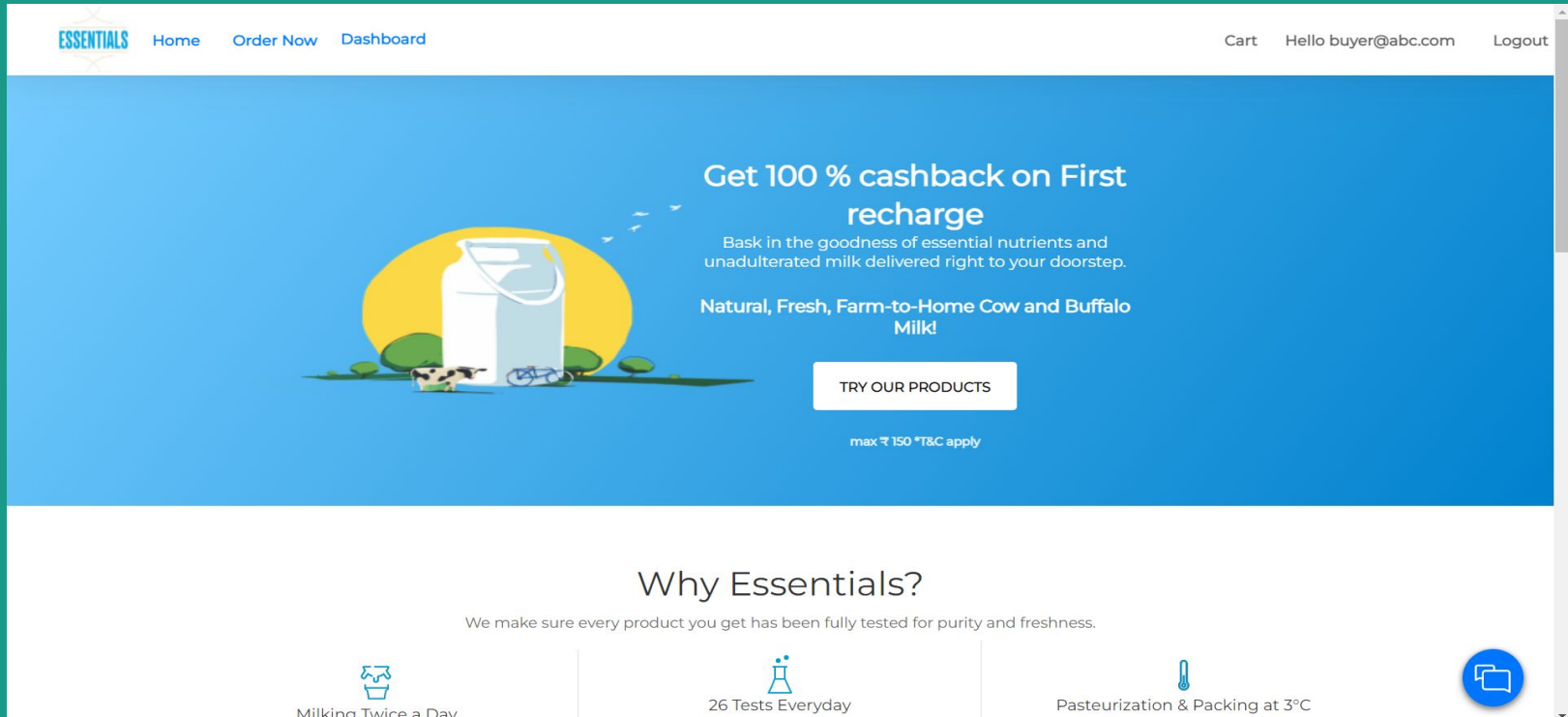
**SIGN IN**

**Sign In:** Registered users can sign in into their accounts



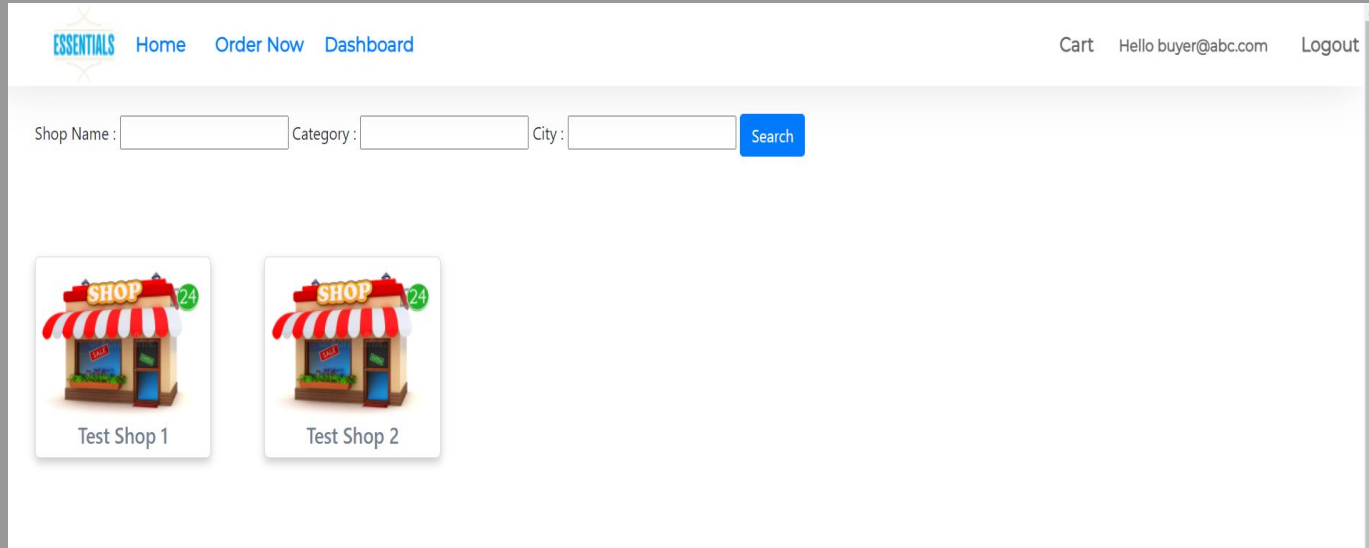


**Signed in as buyer**



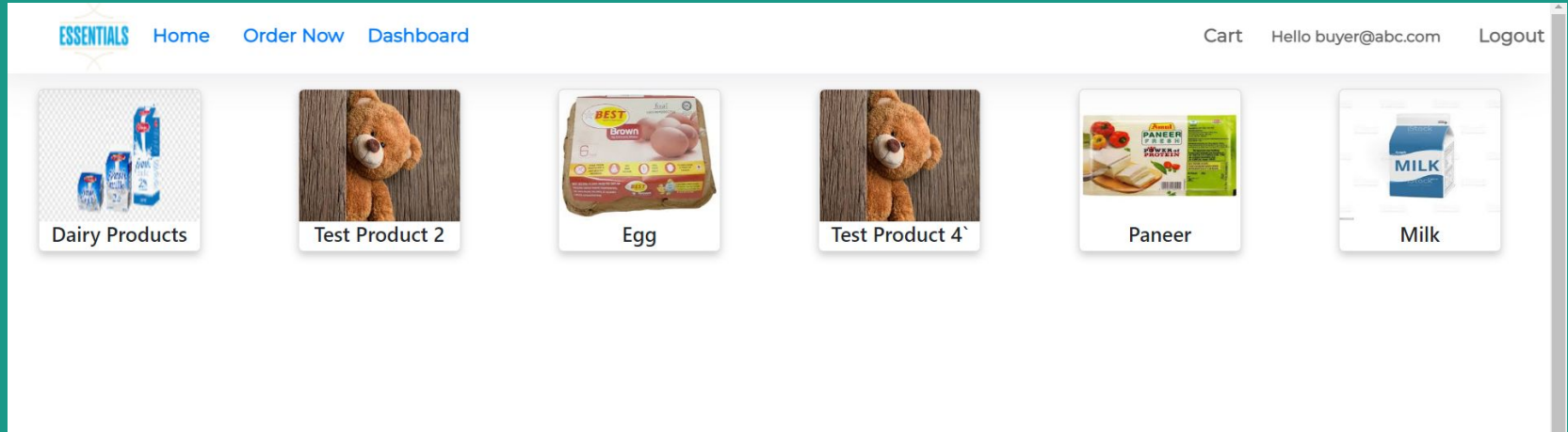
The buyer will be directed to the **Buyer Home Page** after signing in

If the buyer clicks on **Order Now!**, then they are directed to the **Shops** page.



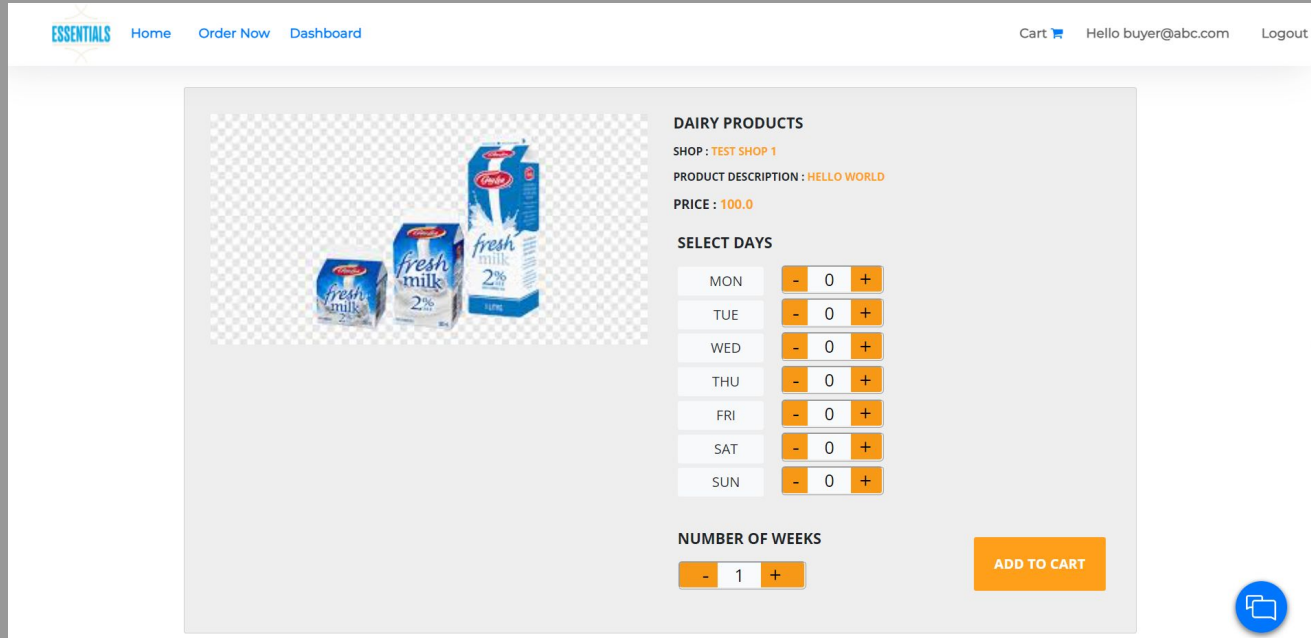
The registered shops are displayed on this page.

The buyer selects a shop and then they land on the **Products** page.

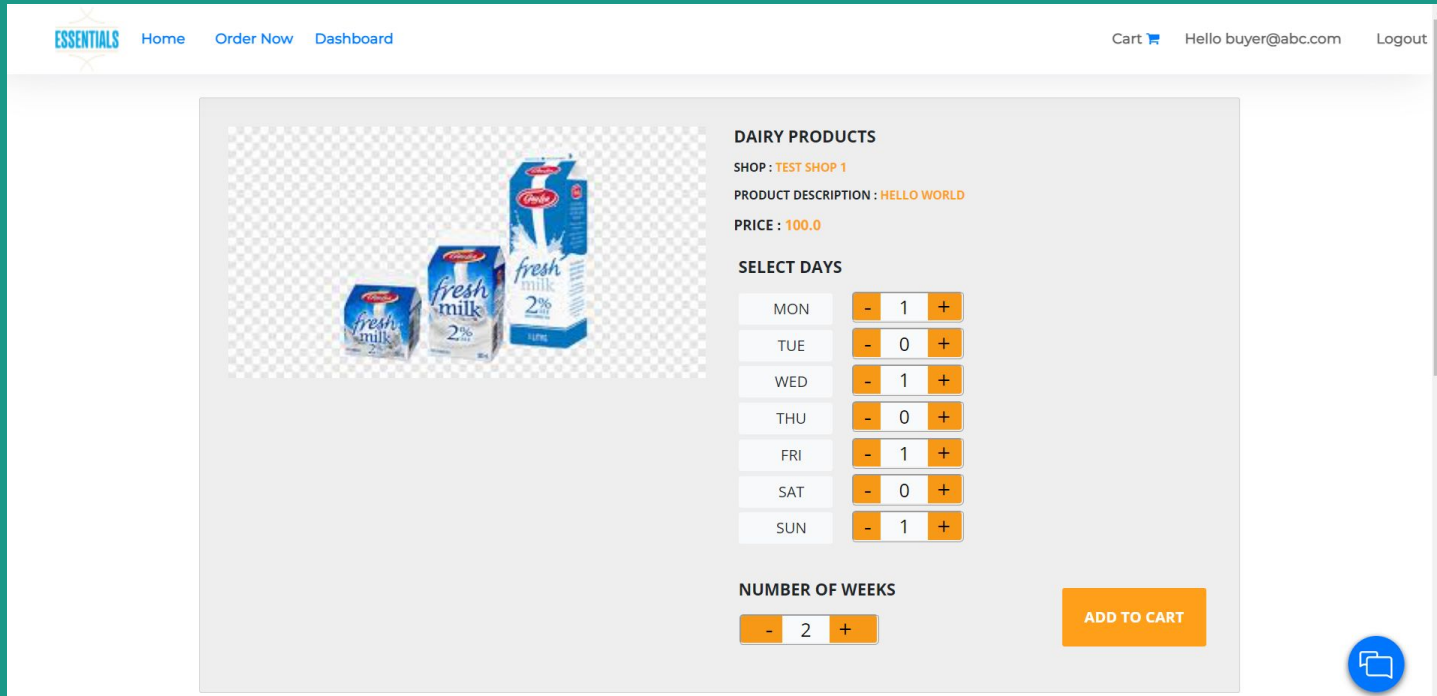


All the products sold by the particular shop is displayed on this page

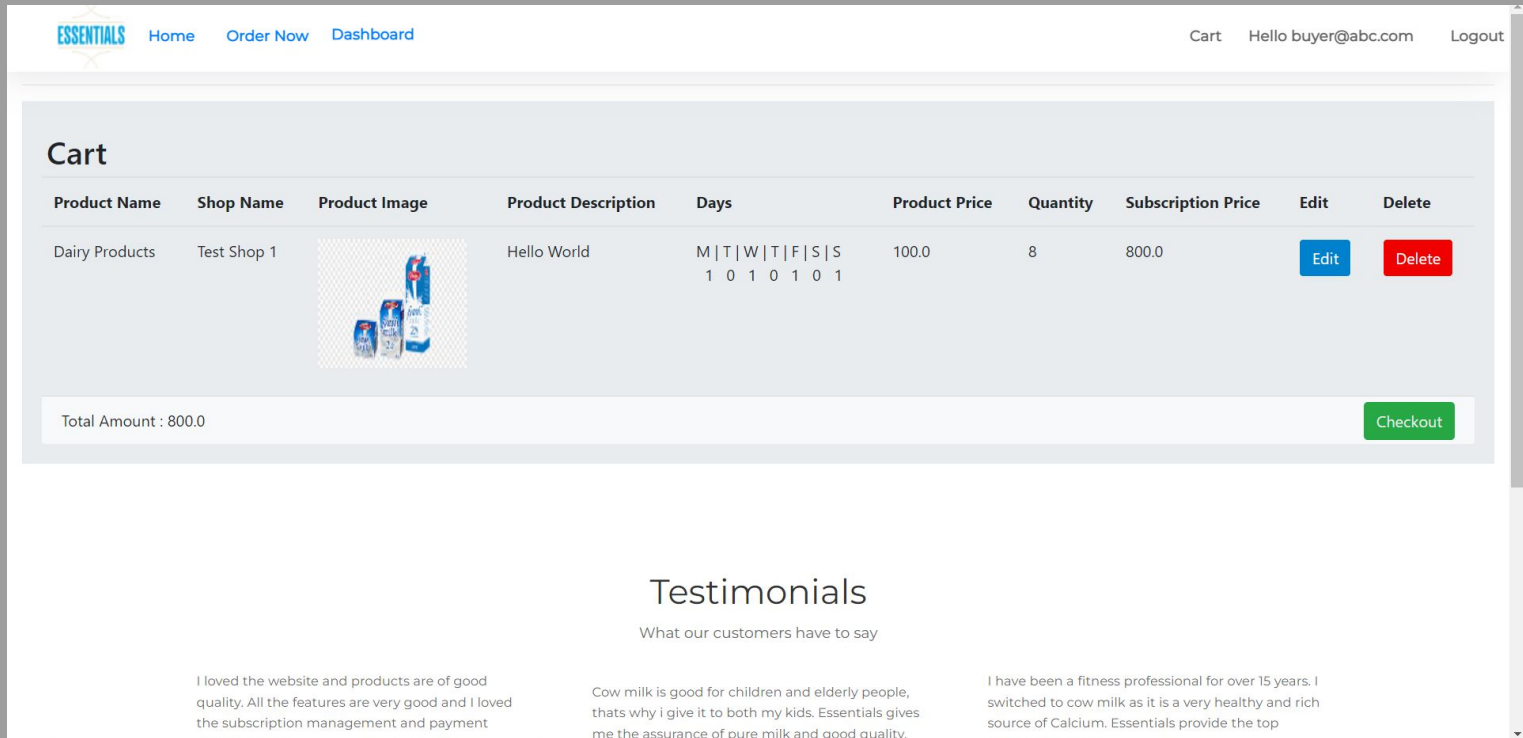
The buyer can click on a product to view it.



- The product details can be viewed.
- The quantity of a product on a particular day can be added.
- The number of weeks for the subscription of the product can be updated.
- The subscription can be then added to the cart.



The buyer can now add this subscription to their cart



After adding the Products to the cart, the user is directed to the Cart page where a summary of their subscription is visible

ESSENTIALS

[Home](#) [Order Now](#) [Dashboard](#)

[Cart](#) [Hello buyer@abc.com](#) [Logout](#)

## Checkout

### Billing address

First name

Last name

Email

you@example.com

Address

1234 Main St

Address 2 (Optional)

Apartment or suite

Country

State

Zip

Choose...

Choose...

### Your cart

Order Price	₹800.0
Total price of your order	
Tax	₹128.0
8% GST & 8% SGST	
Total (INR)	₹928.0

ESSENTIALS

[Home](#) [Order Now](#) [Dashboard](#)

Country

State

Zip

Choose...

Choose...

☐ Shipping address is the same as my billing address

☐ Save this information for next time

### Payment

☒ Credit card

☐ Debit card

☐ PayPal

Name on card

Credit card number

Full name as displayed on card

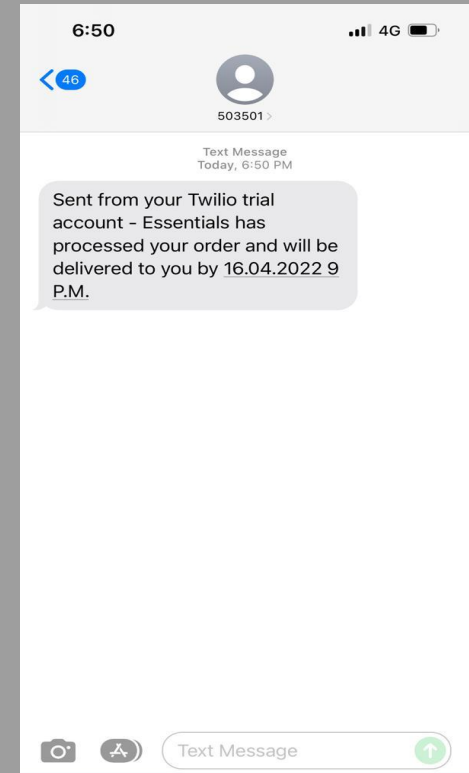
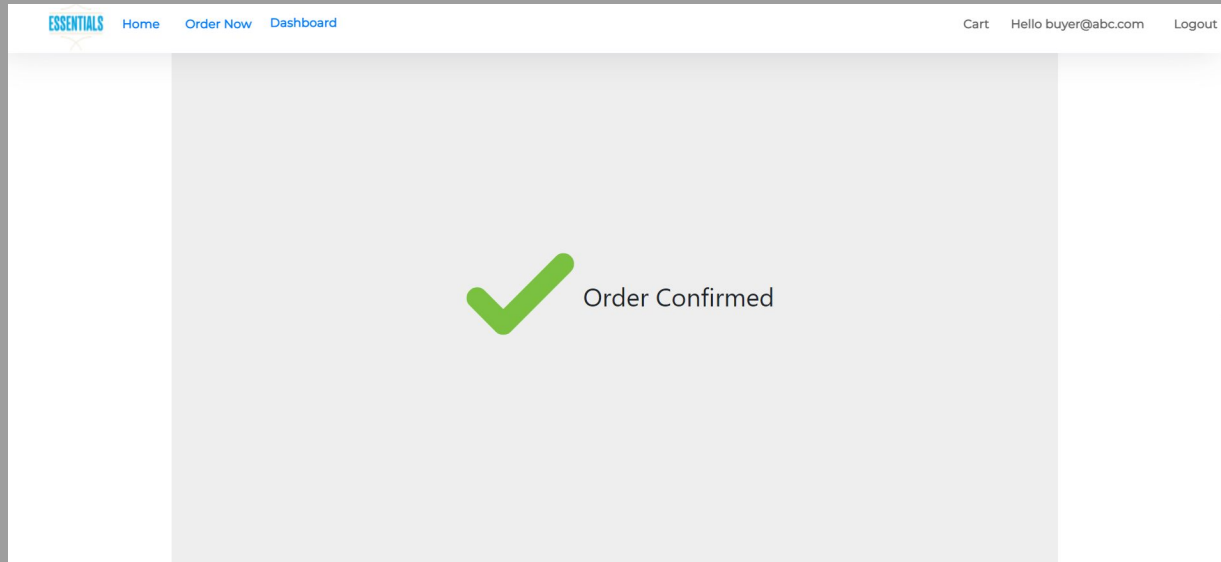
Expiration

CVV

Place Order

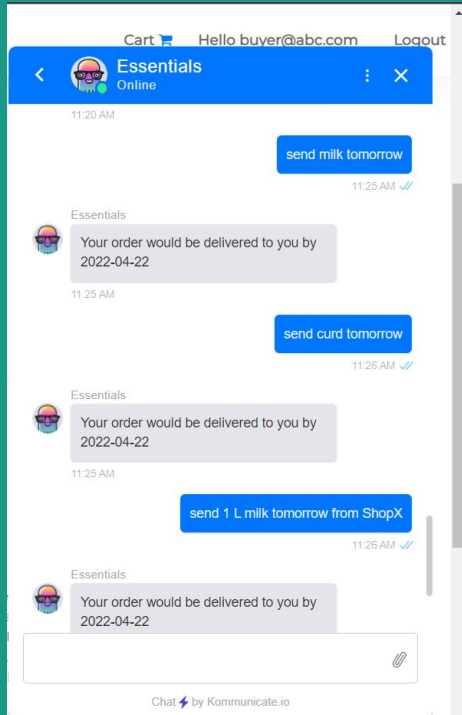
The buyer can **checkout** by entering their billing address and paying for their order.



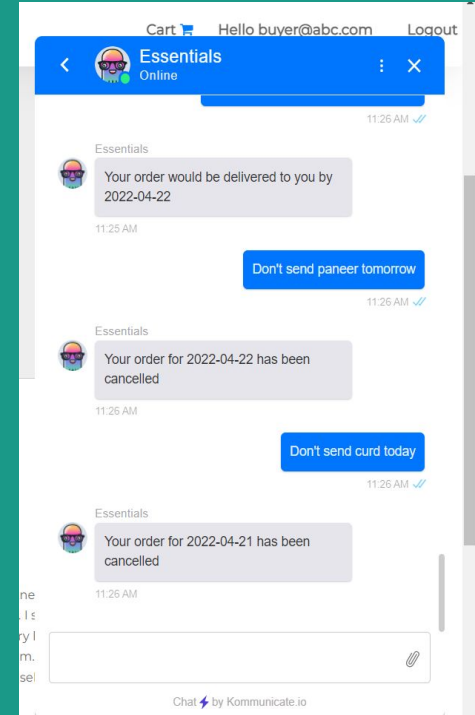


After successful transaction, a confirmation page is displayed and a confirmation message is sent to the user to their registered mobile number.

# ESSENTIALS CHATBOT



- The buyer can place their orders via the **Essentials** ChatBot.
- The buyer can cancel their orders too via the **Essentials** ChatBot.
- An acknowledgement is sent to the buyer via the **Essentials** ChatBot.





**Signed in as Seller**

## Site administration

API			-
Orders			Change
Products	 Add		Change
Subscriptions	 Add		Change

## Recent actions

## My actions

-  Test Shop 1  
Shop
-  Test Shop 2  
Shop
-  Test Shop 2  
Shop
-  Test Shop 1  
Shop
-  Test Shop 2  
Shop
-  Test Shop 1  
Shop

The seller will be directed to the **Seller Home Page** after signing in

Start typing to filter...

- API
- Orders**
- Products [+ Add](#)
- Subscriptions [+ Add](#)

## « Select order to change

Action:  Go 0 of 2 selected

<input type="checkbox"/>	ID	TIMESTAMP	ADDRESS	USER
<input type="checkbox"/>	2	April 21, 2022, 7:54 a.m.	{ "first_name": "Harsh", "last_name": "Gaud", "email": "harsh.gaud@iitg.ac.in", "addressline1": "C-2/6", "addressline2": "RRCAT COLONY", "country": "India", "state": "Assam", "pin": "452013", "paymentMethod": "on" }	se_admin
<input type="checkbox"/>	1	March 30, 2022, 5:51 a.m.	{ "Street": "A-7, Mamta Apts, Appa Saheb Marathe Marg, Opp. Marathe Udyog Bhavan, Prabhadevi", "City": "Mumbai", "State": "Maharashtra", "Phone number": "02224384778", "Zip code": "400025", "Country calling code": "+91", "Country": "India" }	manan.co.in@gmail.com

2 orders

The seller can view the orders and details of the users

HISTORY

« Change order

## Order object (2)

Address:

```
{ "first_name": "Harsh", "last_name": "Gaud",  
  "email": "harsh.gaud@iitg.ac.in", "addressline1":  
  "C-2/6", "addressline2": "RRCAT COLONY",  
  "country": "India", "state": "Assam", "pin":  
  "452013", "paymentMethod": "on" }
```

User:

se\_admin

Subscriptions:

- Subscription object (25)
- Subscription object (26)
- Subscription object (27)
- Subscription object (28)
- Subscription object (29)

Hold down "Control", or "Command" on a Mac, to select more than one.

Delete

Save and continue editing

SAVE

The seller can also add order manually into their dashboard

API

Orders

Products

Add

Subscriptions

Add

Select product to change

ADD PRODUCT +

Action: 

Go

0 of 6 selected

<input type="checkbox"/>	ID	NAME	DESCRIPTION	PRICE	SHOP	CATEGORY
<input type="checkbox"/>	6	Milk	Hello World	600.0	Test Shop 1	Dairy
<input type="checkbox"/>	5	Paneer	Hello World	500.0	Test Shop 1	Dairy
<input type="checkbox"/>	4	Test Product 4	Hello World	200.0	Test Shop 1	Toys
<input type="checkbox"/>	3	Egg	Hello	100.0	Test Shop 1	Poultry
<input type="checkbox"/>	2	Test Product 2	Hello Bro	200.0	Test Shop 1	Toys
<input type="checkbox"/>	1	Dairy Products	Hello World	100.0	Test Shop 1	Dairy

6 products

Dashboard for the products sold by the seller  
The seller can add the products along with its details

API -

Orders

Products + Add

Subscriptions + Add

« Select subscription to change

ADD SUBSCRIPTION +

Action:  Go 0 of 4 selected

<input type="checkbox"/>	ID	PRODUCT	SHOP	USER	PRICE	TIME PERIOD	QUANTITY	NUMBER OF WEEKS	HAS ORDERED
<input type="checkbox"/>	28	Dairy Products	Test Shop 1	hi@gmail.com	0.0	{"week_list": [0, 0, 0, 0, 0, 0]}	0	1	
<input type="checkbox"/>	27	Egg	Test Shop 1	hi@gmail.com	3500.0	{"week_list": [3, 0, 4, 0, 0, 0]}	35	5	
<input type="checkbox"/>	26	Test Product 2	Test Shop 1	hi@gmail.com	1000.0	{"week_list": [3, 0, 2, 0, 0, 0]}	5	1	
<input type="checkbox"/>	25	Egg	Test Shop 1	hi@gmail.com	800.0	{"week_list": [1, 3, 0, 0, 0, 0]}	8	2	

4 subscriptions

Dashboard for the subscriptions  
The seller can view all the subscriptions of every user



Essentials

Home » Api » Subscriptions » Add subscription

Start typing to filter...

API

Orders

Products + Add

Subscriptions + Add

Add subscription

Product:

User:

Shop:

Price:

Time period:

Quantity list:

The Seller can also add subscriptions manually

The dashboard will be updated accordingly

Essentials

Home » Api » Subscriptions » Subscription object (28)

Start typing to filter...

API

Orders

Products + Add

Subscriptions + Add

Change subscription

Subscription object (28)

Product: Dairy Products

User: hi@gmail.com

Shop: Test Shop 1

Price: 0.0

Time period: ("week\_list": [0, 0, 0, 0, 0, 0, 0])

Quantity list: null

HISTORY



# Admin

- The admin will verify each seller manually.
- They will manage all the sellers.
- They will have the complete access of the application.

# Technologies Used

**HTML**



**CSS**



**JavaScript**



SQLite



python™

**django**



# Contributions

# Harsh Gaud

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- Worked on the documentation of SRS and diagrams
- Integrated backend for CRUD functionality of Carts, Products, & Shops
- Worked on the database design and implementation of the same.
- Built Admin Interface
- Implemented System Testing

# Himanshu Kaushik

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- Worked on the documentation of SRS and diagrams
- Designed the front-end of the web application using HTML, CSS and Bootstrap.
- Created filters to filter shops according to its location, category and name.
- Configured Frontend with the Backend.
- Django template rendering for data fetching in frontend.
- Worked on the database design and implementation of the same.

# Ananya Pathak

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- Worked on the documentation of SRS and diagrams
- Designed the front-end of the web application using HTML, CSS and Bootstrap.
- Configured Frontend with the Backend.
- Django template rendering for data fetching in frontend.
- Worked on the database design and implementation of the same.

# Manan Gyanchandani

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- Worked on the documentation of SRS and diagrams
- Structured the backend
- Worked on the database design and implementation of the same.
- Integrated backend for CRUD functionality of Orders & Users.
- Integrated Chatbot using Google Dialogflow
- Implemented Unit Testing & Manual Testing



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**Thank You!**