



Green Grocery

An Online Grocery Store

ACKNOWLEDGEMENTS

In the present world of competition, there is a race of existence in which those who are having the will to come forward succeed. A project is like a bridge between theoretical and practical work. With this willingness, we joined this particular project. First of all, we would like to thank the supreme power, the Almighty God who is the one who has always guided me to work on the one who has always guided me to work on the right path of life. Without his grace, this project could not become a reality. Next to him are my parents whom I am greatly indebted to me brought up with love and encouragement to this stage. I am feeling obliged to take the opportunity to sincerely thank our Professors. Moreover, I am highly obliged in taking the opportunity to sincerely thank all the staff members of the computer department for their generous attitude and friendly behavior. Last but not least I am thankful to all my teachers and friends who have been always helping and encouraging me throughout the year. I have my valuable words to express my thanks, but my heart is full of the favors received from every person.

ABSTRACT

- ❖ In this project, we made significant usage of both Front-end and some Back-end parts in developing our website and understood various parts of usage of many libraries and their scope.
- ❖ We learned using MongoDB, Express, React, Node, and many more. We hosted our website on GitHub and are planning to deploy it on the cloud-based service.
- ❖ Next, we will create an Admin page to load products and maintain a database. Overall, the course helped me understand several modules and functionalities of a website and develop it.

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Problem Motivation

In these present situations, it is difficult for farmers to sell their products at a fair price in markets. Customers are buying hybrid fruits and vegetables which are not good for health which contain harmful substances. Customers are buying products at a higher price than the market price.

Problem Statement

Farmers can sell fruits, vegetables, and dairy products at fair market prices on our website and customers can buy directly organic products from farmers through the website which are fresh and healthy for the body.

Problem Solution

- ❖ Farmers can sell fruits, vegetables, and dairy products at fair market prices on our website
- ❖ Customers can buy directly organic products from farmers through the website which are fresh and healthy for the body

Project Overall Idea

- ❖ Farmers can contact the GreenGrocery website and can sell their vegetables, fruits, and dairy products at fair prices.
- ❖ The process includes, firstly, the delivery guy picks their products and the management staff is responsible for updating these products on the website.
- ❖ Users can log in to the website and can buy organic

fruits, vegetables, and dairy products which are very fresh and healthy that come directly from farmers.

- ❖ Users can then select their required products and the respective quantity of each product and add them to the cart. After adding to the cart, the user can checkout and fill in the shipping details, and enter payment details.
- ❖ After a successful transaction, the user will get an order confirmation and a tracking link. Users can resolve their queries in the Contact Us section.

Tools Required

- ❖ Browsers like Chrome can run HTML5, CSS3, JavaScript, Bootstrap, PostMan, Material-UI, Axios, React, Redux, Stripe.
- ❖ To get the project running, you need NPM and React installed. You also require libraries like Redux.

Get Started

- ★ Download git from the link:

<https://git-scm.com/downloads>

- ★ Download node and npm from link

<https://nodejs.org/en/>

- ★ After that in the terminal type “pip install npm”.

- ★ Open the command prompt and run the command: git clone <https://github.com/fsd30/Green-Grocery.git>

- ★ Change directory to Client Folder and type “yarn” in the command line and in another terminal change directory to API Folder and type “yarn” to install all the required dependencies.

- ★ Finally to run the servers, use the following command in both the terminals: **yarn start**

- ★ Then the terminal will prompt to open a URL or else type <http://localhost:3000/> for the frontend part and

another terminal will run <http://localhost:5000/> for the backend part

- ★ Below is the screenshot to get started with running the server.

For Client

```
PROBLEMS    OUTPUT    TERMINAL    DEBUG CONSOLE
neerajdusa@Neerajs-MacBook-Air ~ % cd client
neerajdusa@Neerajs-MacBook-Air client % yarn start
```

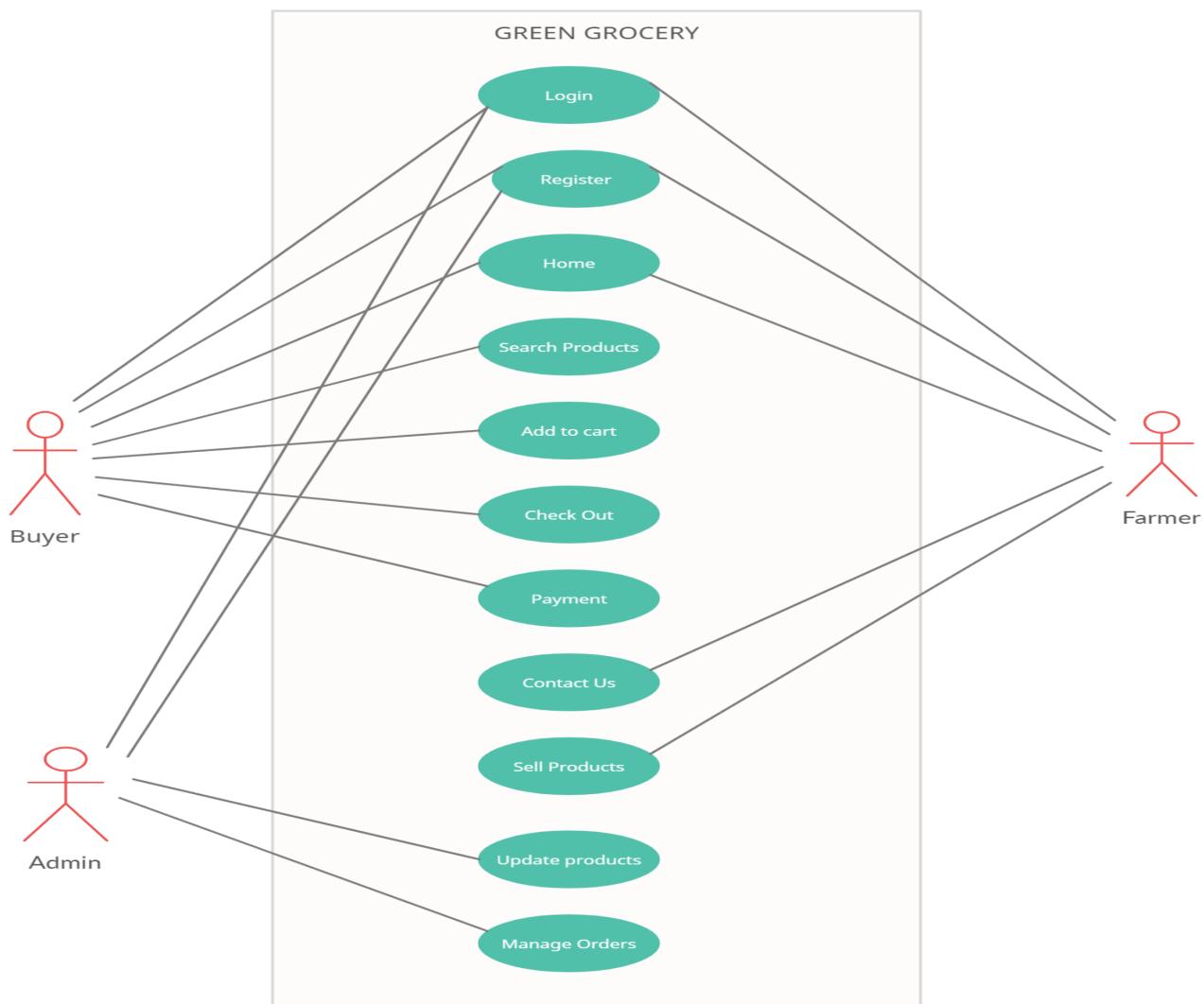
For API

```
PROBLEMS    OUTPUT    TERMINAL    DEBUG CONSOLE
neerajdusa@Neerajs-MacBook-Air ~ % cd api
neerajdusa@Neerajs-MacBook-Air api % yarn start

neerajdusa@Neerajs-MacBook-Air api % yarn start
yarn run v1.22.17
$ nodemon index.js
[nodemon] 2.0.12
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): ***!
[nodemon] watching extensions: js,mjs,json
[nodemon] starting `node index.js`
Backend server is running!
DB Connection Successfull!
```

Use Case Diagram

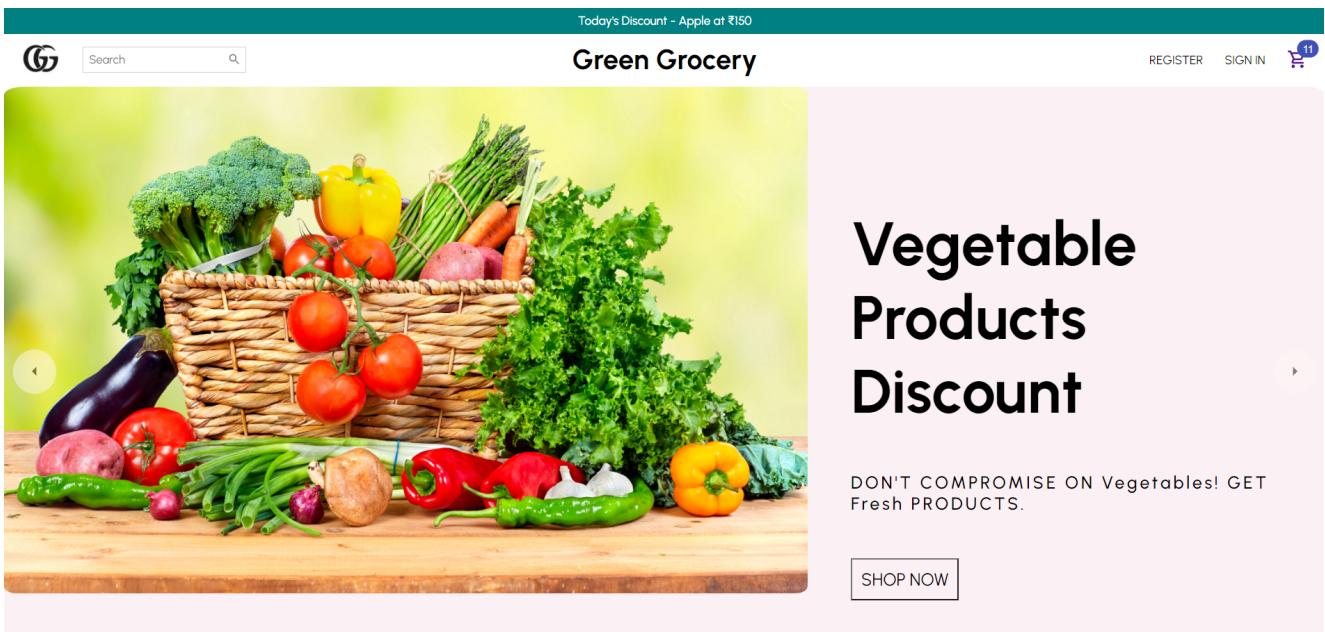
In the Unified Modeling Language (UML), a use case diagram can summarize the details of your system's users (also known as actors) and their interactions (Use cases) with the system. Below is the use case diagram of the Green Grocery system.



Overview Of Website

HOME

- This is the Green Grocery Home page with innovative UI and attractive animations. Here, at the center, we have a slider where vegetables, fruits, and dairy products are shown with daily discount offers.
- This is the default web page that gets loaded when we visit the web address and acts as the starting point of any website.







Newsletter

Get timely updates from your favorite products.

Your email



GreenGrocery

Don't have time for buying groceries from the market or you are unhappy with the quality of the products that are available at the nearest grocery store? Luckily, We are here to making your lives simpler as you will find all the necessities in one place. You can get quality products of your choice at low prices.



Useful Links

- | | |
|----------------|------------|
| Home | Cart |
| Vegetables | Fruits |
| Dairy | My Account |
| Order Tracking | ContactUs |
| Wishlist | Terms |

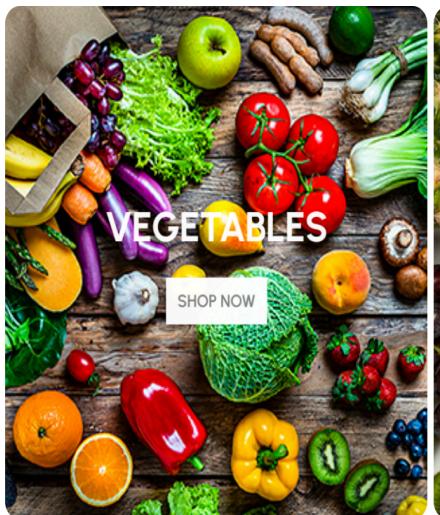
Contact

- SriCity, India
 +91 98765 43210
 contact@farmer.com



EACH PRODUCT CATEGORY

- This is the shop page where we can find different kinds of products. On this page, one can find a stack of all vegetables, fruits, and dairy products.
- We have a filter that shows the color, and price(ascending or descending) of the product. There is a dedicated “Add to Cart” button, by which one can add the products directly to the cart.



FILTER

At First, the Diary page is shown below without any filter.

Dairy

Filter Products :



Sort Products :



Now, after filtering the products with specifications such as color as white and price in ascending order, we get the filtered products appropriate to our needs and the image is as shown below.

Dairy

Filter Products :

Sort Products :



BUY NOW

This is the broad view of each Product. We can find the complete details regarding the selected Product and place it and add it to the cart.

Today's Discount - Apple at ₹150



Mango

On realizing numerous benefits of mango, your love for this fruit will increase manifold. It not only tastes good but has many health benefits. Here we give you 15 top healthy reasons for why you should eat mangoes during summer. Mangoes contain antioxidants such as quercetin, fisetin, isoquercitrin, astragalin, gallic acid and methyl gallate. All these properties protect our body against breast cancer, colon cancer, prostate cancer and leukaemia. Mangoes contain antioxidants such as quercetin, fisetin, isoquercitrin, astragalin, gallic acid and methyl gallate. All these properties protect our body against breast cancer, colon cancer, prostate cancer and leukaemia.

\$ 40

Color

- +

CART

- ❖ Here we can find the products(vegetables, fruits, and dairy items) that have been added to the cart. It shows the name of the product, price, quantity, total amount, and estimated shipping.
- ❖ You can see that every time you add a product to the cart, in the top right corner, the cart's count will be updated.
- ❖ If you are ready with the final set of products, click on the checkout button.

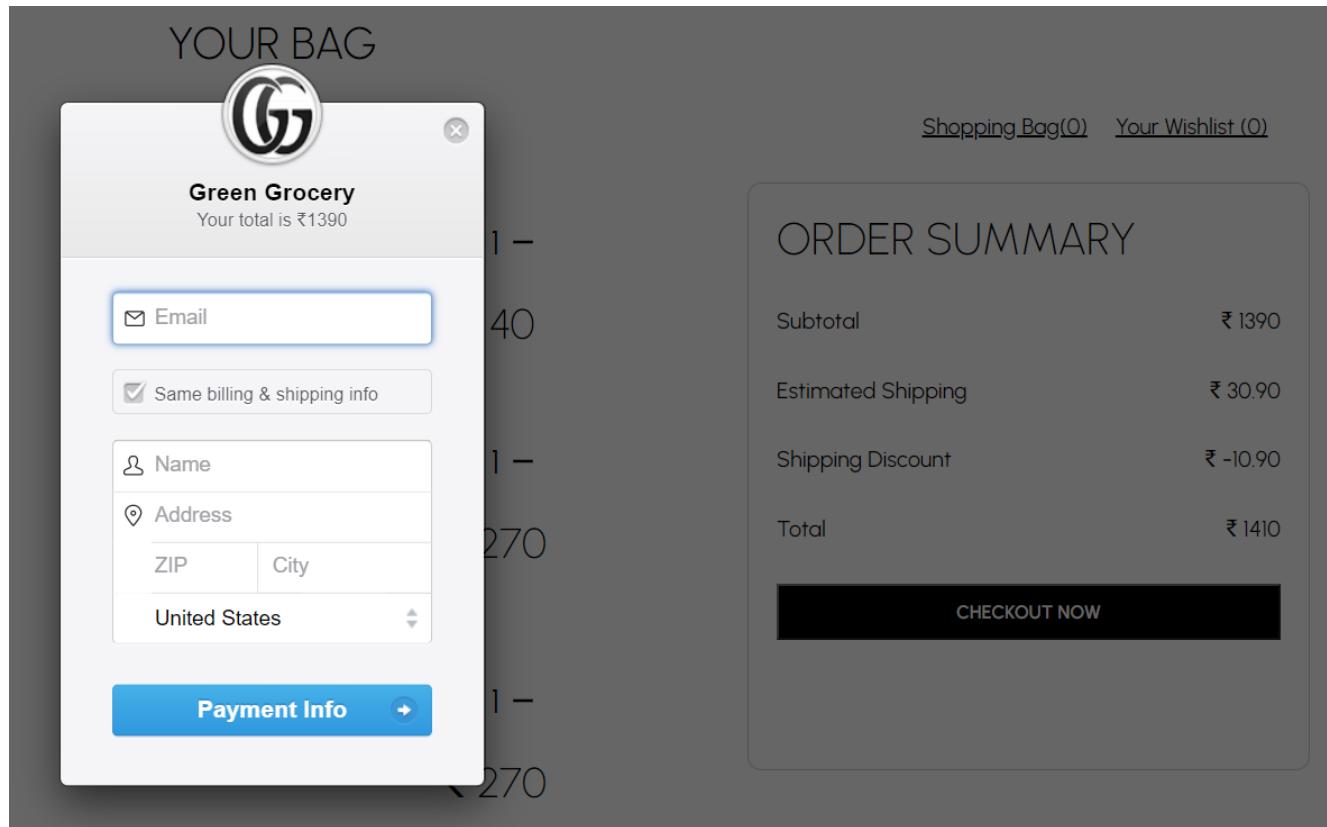
The screenshot shows a shopping cart interface for 'Green Grocery'. At the top, there is a logo, a search bar, and links for 'REGISTER' and 'SIGN IN'. A shopping cart icon with a blue dot (indicating items in the cart) is also present. The main header is 'Green Grocery' with a subtitle 'Today's Discount - Apple at ₹150'. Below the header, the section title 'YOUR BAG' is centered. On the left, there is a product card for 'Carrot' with an image, the product name, ID, quantity selector (+ 2 -), and price ₹ 60. On the right, there is an 'ORDER SUMMARY' box containing the following table:

ORDER SUMMARY	
Subtotal	₹ 60
Estimated Shipping	₹ 30.90
Shipping Discount	₹ -5.90
Total	₹ 85

A 'CHECKOUT NOW' button is located at the bottom of the summary box. Navigation arrows are visible at the bottom of the page.

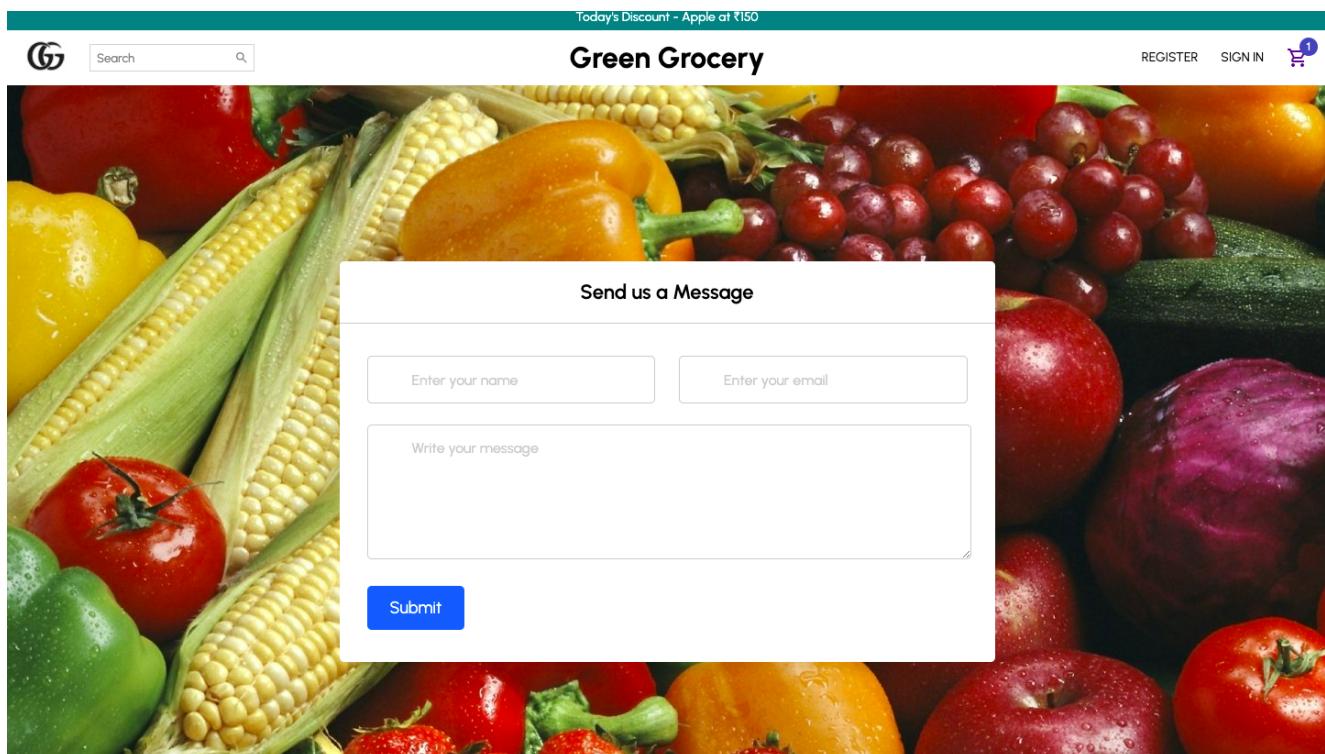
CHECKOUT & PAYMENT

- ❖ Here, the order summary of the products you want to buy is displayed. It shows the name, quantity, total savings, shipping charges, and net total.
- ❖ Once you confirm these details, fill in the shipping information and click on make payment.
- ❖ After the confirmation, a pop-up message will be shown for successful payment.



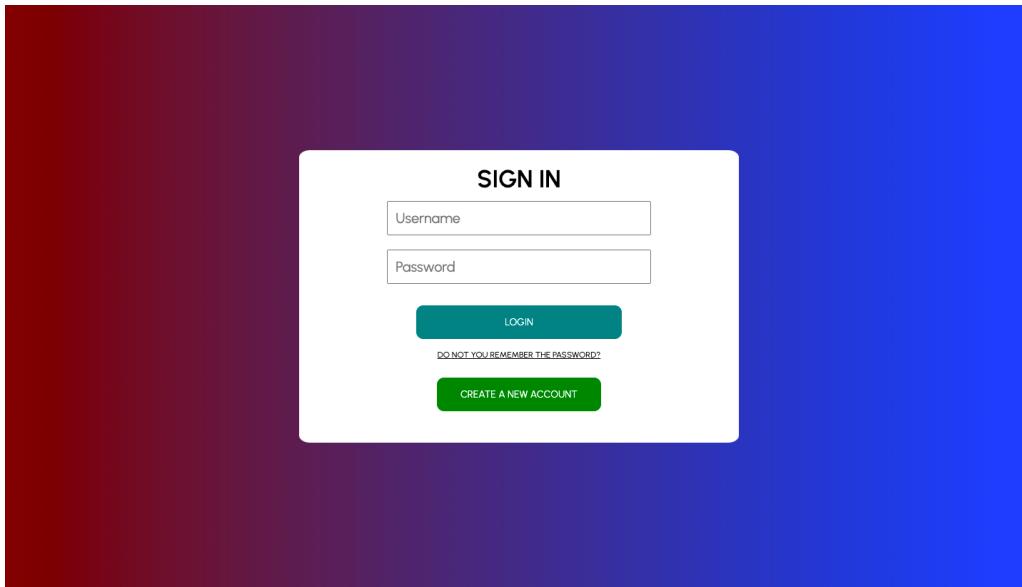
CONTACT US

Generally, users with any queries can contact us through any of our social media websites. For faster query responding, the users can use this section, where they can directly contact us through email. Here, there is a contact form with name, email, and message. We will reply as soon as possible through email.



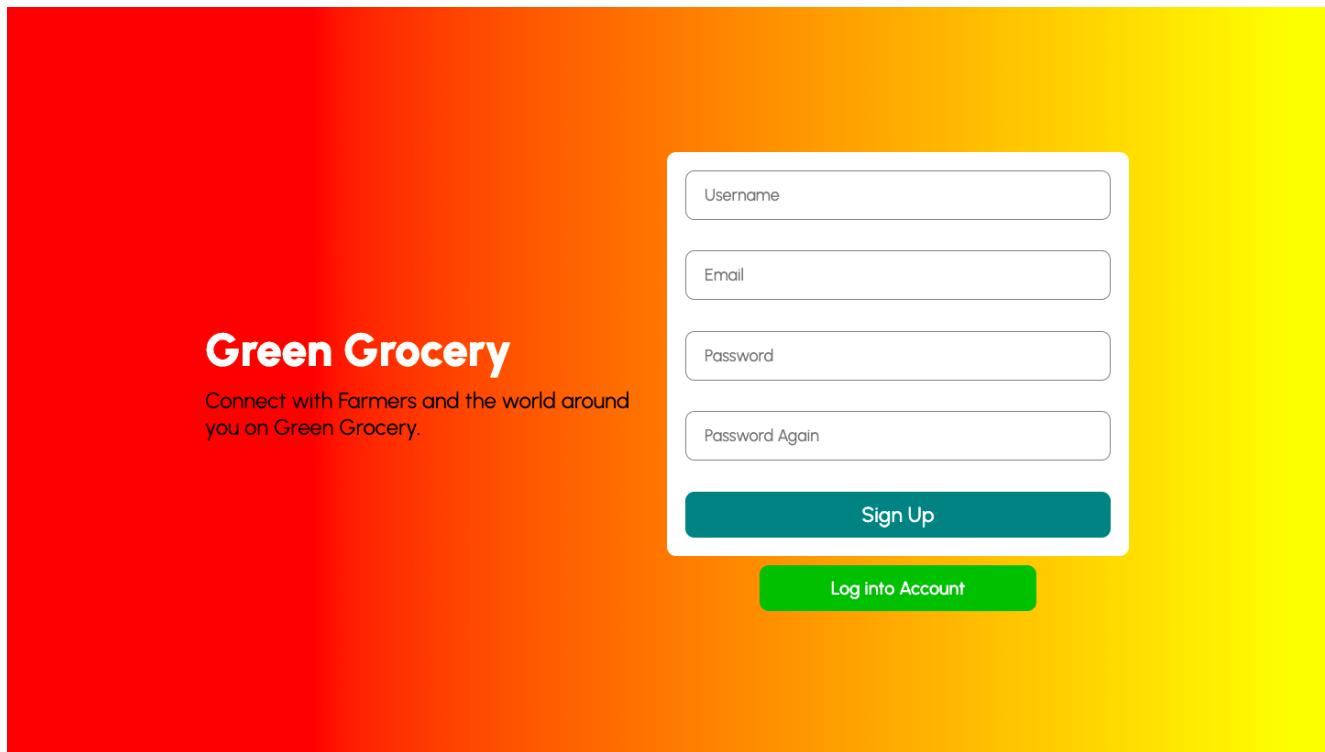
LOGIN

- ❑ The existing users of our website can Log In through username and password in this section.
- ❑ Now if you have forgotten your password, worry not. You can reset your password using your email address with a reset link sent to mail.
- ❑ Now, If you are a new user around here, you can also sign up from here. The below image is of the log-in page.



SIGNUP

In this section, one can create an account and register themselves. New users can sign up by entering a username, email, password, re-enter the password, and then register themselves. Tada!, creation of the account is done and we always welcome you to join our family and we are very happy to serve you. This will also help in building a community.



NAVBAR AND FOOTER

In the navbar, users can redirect to the Home page easily by clicking on Logo or on Green Grocery.



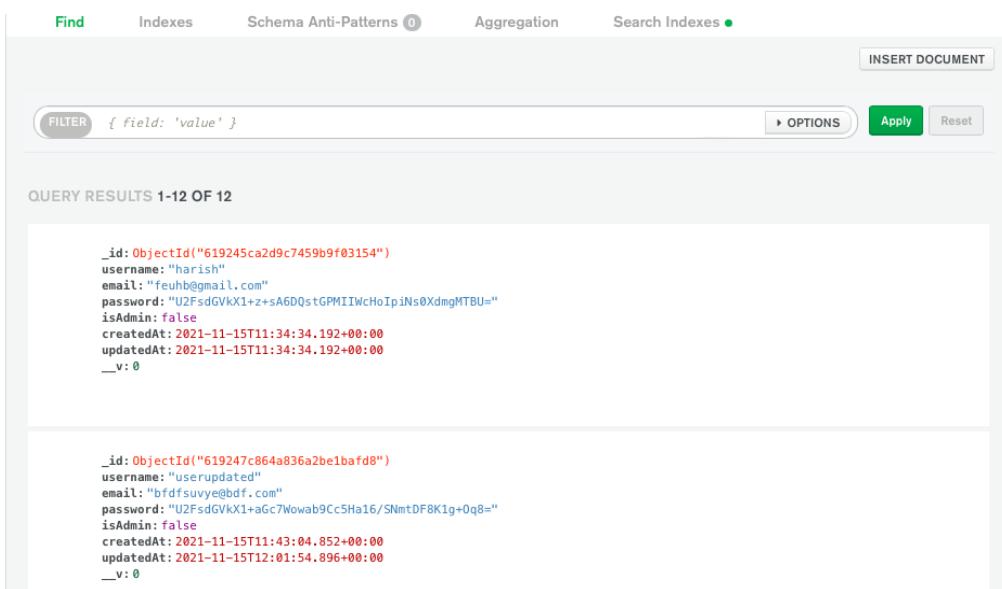
In the footer, there are links to go through the social accounts of Green Grocery and useful links for users to visit the other pages quickly, and also a newsletter to subscribe to for knowing the latest information via Email.

A screenshot of the Green Grocery website's footer section. It has a light blue background. At the top, the word "Newsletter" is displayed in large, bold, black font. Below it, a subtext says "Get timely updates from your favorite products." followed by a form with a "Your email" input field and a teal "►" button. The footer is divided into three columns: "GreenGrocery" (with a brief description and social media icons for Facebook, Instagram, Twitter, and Pinterest), "Useful Links" (listing Home, Vegetables, Dairy, Order Tracking, Wishlist, Cart, Fruits, My Account, ContactUs, and Terms), and "Contact" (listing the location "SriCity, India", phone number "+91 98765 43210", email "contact@farmer.com", and payment method icons for MasterCard, PayPal, American Express, VISA, and Discover).

DETAILS ABOUT DATABASE - MONGODB

MongoDB Administration

Users Collection:



The screenshot shows the MongoDB Compass interface with the 'project0' database selected. The 'users' collection is currently active. At the top, there are tabs for 'Find', 'Indexes', 'Schema Anti-Patterns', 'Aggregation', and 'Search Indexes'. Below these are buttons for 'INSERT DOCUMENT', 'FILTER' (with a query '{ field: 'value' }'), 'OPTIONS', 'Apply', and 'Reset'. The main area displays 'QUERY RESULTS 1-12 OF 12' for the 'users' collection. Two documents are listed:

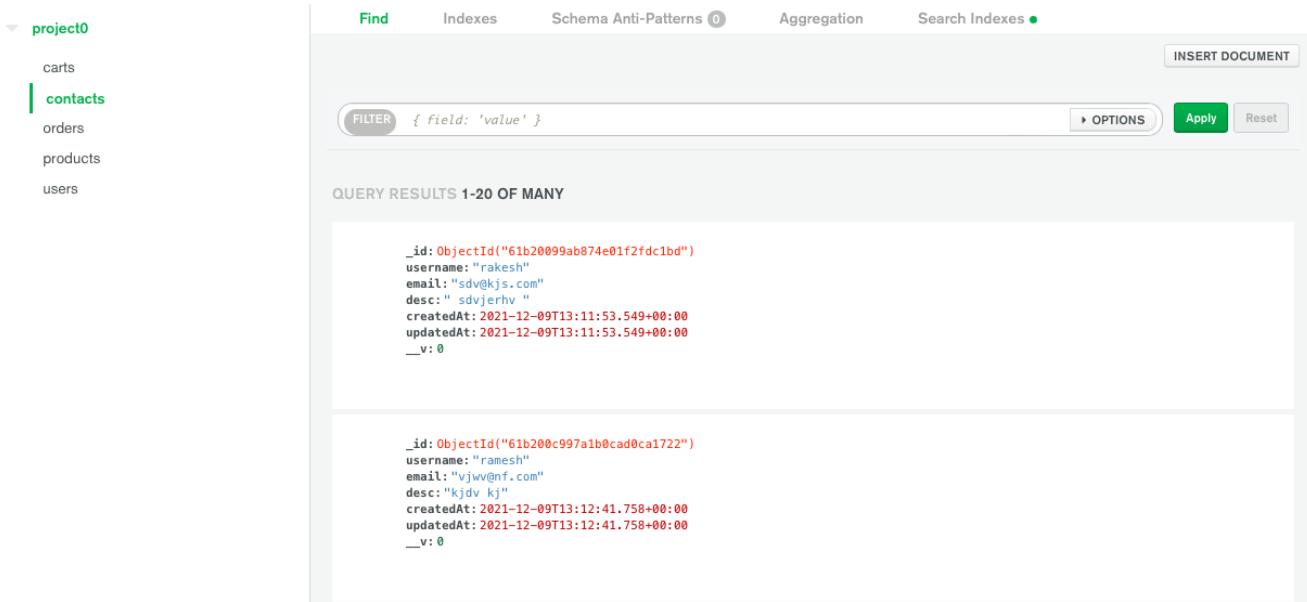
```
_id: ObjectId("619245ca2d9c7459b9f03154")
username: "harish"
email: "feuhb@gmail.com"
password: "U2FsdGVKX1+z+sA6DQstGPMIIwChOIpjNs0XdmgMTBU="
isAdmin: false
createdAt: 2021-11-15T11:34:34.192+00:00
updatedAt: 2021-11-15T11:34:34.192+00:00
__v: 0

_id: ObjectId("619247c864a836a2be1baafdb")
username: "userupdated"
email: "bfdfsuvye@bdfi.com"
password: "U2FsdGVKX1+aGc7Wowab9Cc5Ha16/SNmtDF8K1g+0q8="
isAdmin: false
createdAt: 2021-11-15T11:43:04.852+00:00
updatedAt: 2021-11-15T12:01:54.896+00:00
__v: 0
```

Explanation:

We created a User schema with various fields. Here, we create string objects like username, email, password, and image. We create a boolean object “isAdmin” to determine if the user is admin or not. This is the general model for any user creation. Every time a user is registered a time stamp is automatically generated to record the time when a user is created.

Contacts Collection:



The screenshot shows the MongoDB Compass interface with the 'project0' database selected. The 'contacts' collection is currently active. At the top, there are tabs for 'Find', 'Indexes', 'Schema Anti-Patterns' (with 0 issues), 'Aggregation', and 'Search Indexes'. On the right, there are buttons for 'INSERT DOCUMENT', 'OPTIONS', 'Apply', and 'Reset'. A filter bar at the top has the query '{ field: 'value' }'. Below the filter, it says 'QUERY RESULTS 1-20 OF MANY'. Two documents are listed:

```
_id: ObjectId("61b20099ab874e01f2fdc1bd")
username: "rakesh"
email: "sdv@kjs.com"
desc: " sdvjerhv "
createdAt: 2021-12-09T13:11:53.549+00:00
updatedAt: 2021-12-09T13:11:53.549+00:00
__v: 0

_id: ObjectId("61b200c997a1b0cad0ca1722")
username: "ramesh"
email: "vjwvgnf.com"
desc: "kjdv kj"
createdAt: 2021-12-09T13:12:41.758+00:00
updatedAt: 2021-12-09T13:12:41.758+00:00
__v: 0
```

Explanation:

We created a Contact schema with various fields. Here, we create string objects like username, email, message. This is the general model for any contact creation. Every time a user is registered a time stamp is automatically generated to record the time when a user is created and updated. Once we receive the user queries, our team will reach the user as fast as possible to solve their queries.

Products Collection:

The screenshot shows the MongoDB Compass interface with the 'project0' database selected. The 'products' collection is currently active, indicated by a green border around its name in the sidebar. The top navigation bar includes 'Find', 'Indexes', 'Schema Anti-Patterns', 'Aggregation', 'Search Indexes', and 'INSERT DOCUMENT' buttons. A search bar at the top right contains the query 'f field: "value"'. Below the search bar are 'OPTIONS', 'Apply', and 'Reset' buttons. The main area displays the results of a query: 'QUERY RESULTS 1-10 OF 10'. Two documents are listed, each with a preview icon, edit, copy, and delete buttons. The first document is for an 'Onion' product, and the second is for a 'Carrot' product. Both documents have identical schema fields: _id, title, desc, img, categories, size, color, price, inStock, createdAt, updatedAt, and __v.

```
_id: ObjectId("6192525b64a836a2be1baff2")
title: "Onion"
desc: "Packed With Nutrients.
      May Benefit Heart Health.
      Loaded With Antioxida..."
img: "https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9Gc5CFyIkwtwSjR7LLe..."
categories: Array
size: Array
color: Array
price: 50
inStock: true
createdAt: 2021-11-15T12:28:11.321+00:00
updatedAt: 2021-11-15T12:28:11.321+00:00
__v: 0

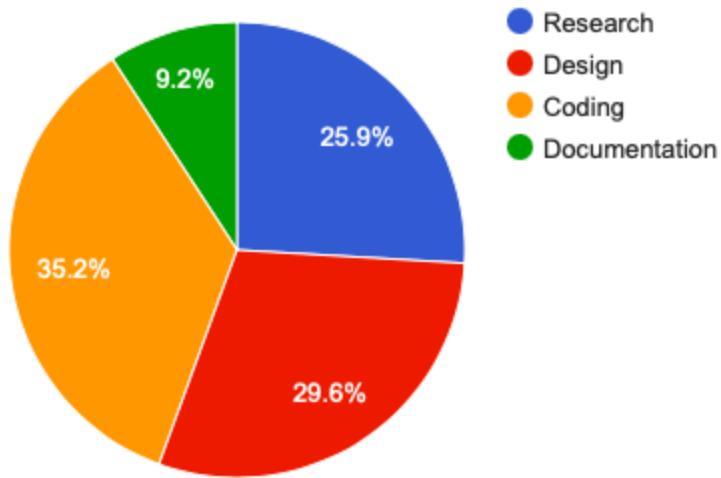
> _id: ObjectId("61b1dba1de5b32583107653b")
title: "Carrot"
desc: "The fiber in carrots can help keep blood sugar levels under control. A..."
img: "https://www.pngonly.com/wp-content/uploads/2017/05/Bunch-of-Carrot-PNG..."
categories: Array
size: Array
color: Array
price: 30
inStock: true
createdAt: 2021-11-15T12:28:11.321+00:00
updatedAt: 2021-11-15T12:28:11.321+00:00
__v: 0
```

Explanation:

We had created a products schema with various fields. The product model has string objects like title, description, and image. We then create array objects like categories, size, and color. A number object price, and a Boolean object in stock. This is the general creation of the Products model. This model can be used by the admin to get information and modify products.

Time allocated for various tasks

FSD Time Allocation



	Inception (hours)	Implementation (hours)	Elaboration (hours)	Total
Research	2	8	4	14
Design	5	6	5	16
Coding	2	12	5	19
Documentation	1	2	2	5
Total	10	28	16	54

REFERENCES

- <https://reactjs.org/docs/getting-started.html>
- <https://www.w3schools.com/REACT/DEFAULT.ASP>
- <https://docs.mongodb.com/manual/core/databases-and-collections>
- <https://stackoverflow.com>
- <https://expressjs.com/en/5x/api.html>
- <https://mui.com>
- <https://nodejs.org/dist/latest-v16.x/docs/api/documentation.html>

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