

You Already Know

Before we begin, let's recall what we have covered so far:







CSS



SQL



A Day in the Life of a Full Stack Developer

As a full stack web developer, our key role is to develop both client and server software.



Angular can be used to build the front end of the web page.





Spring Boot and MySQL or MongoDB can be used to build the back end.



A Day in the Life of a Full Stack Developer

Now, Bob needs to create web page and database for end user Web App to further proceed with his project.

Let us use previously discussed technologies to create the web page and database for the end user web app.





In this lesson, we will learn HTML and CSS skills to design and develop web pages in the previously created Angular project. We will also use SQL commands to create tables in the database for the end-user web app, helping Bob complete his task effectively and quickly.



Learning Objectives

By the end of this lesson, you will be able to:

- Develop the web page templates for end-user web app
- Develop the CSS for styling the web pages and configure routing
- Use SQL commands to create tables for the end-user web app
- Create primary and foreign key relationships within tables for data integrity

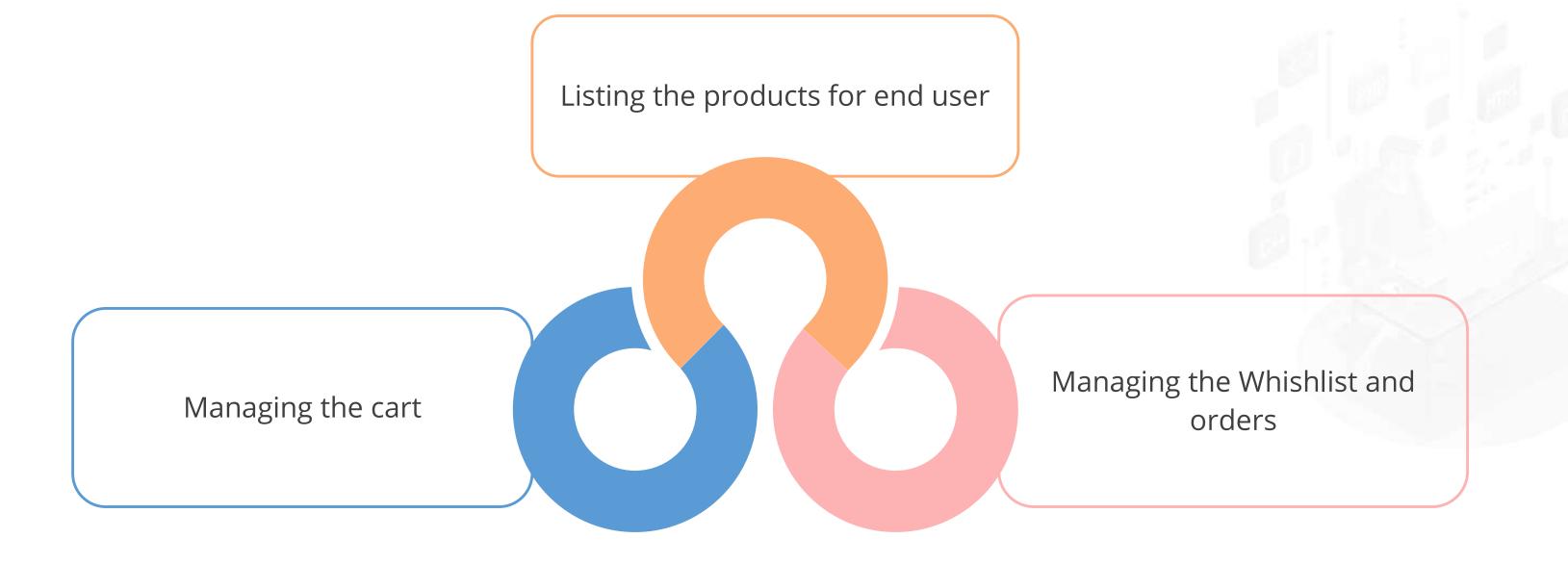


TECHNOLOGY

Angular Component Templates for End User

Modules

In this project, various modules will be managed, such as:



Web Page Templates

For basic operations, the web page templates are developed, using:

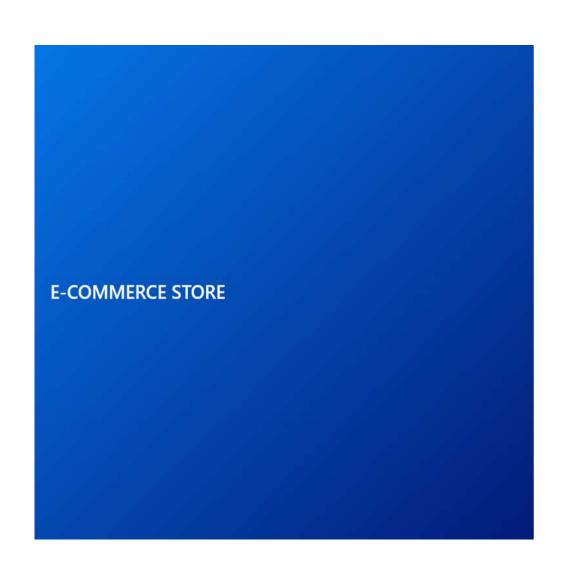


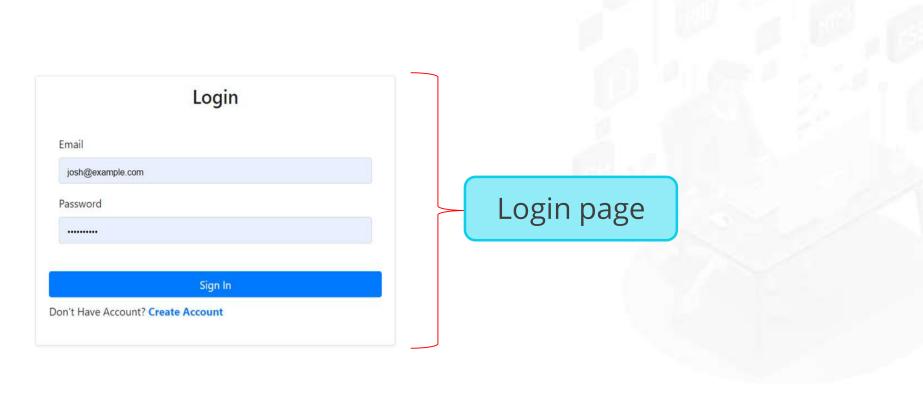




Web Page for Authentication Login Component

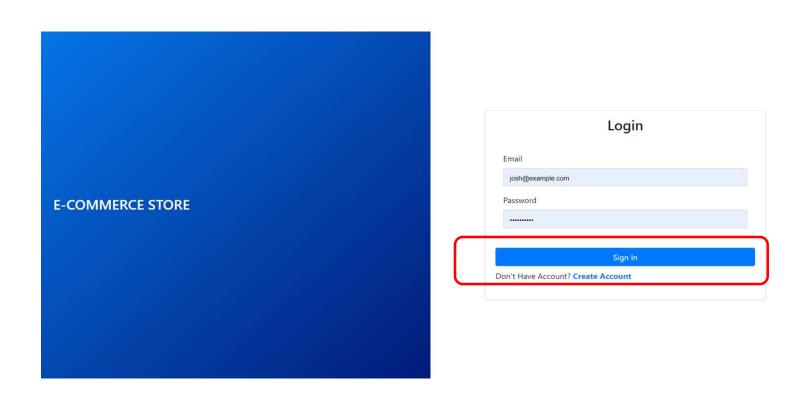
Develop a login page for the end user to sign in and enter the home page.





Web Page for Authentication Login Component

Design the login page with the email, password, and a login button.



Click on the login button to validate the user and navigate to the home page, which will have a navigation bar with various options.



Web Page for Authentication Login Component

In the directory: src/app/pages/login/

login.component.css

CSS goes here to design the page and forms.

login.component.html

HTML code is written in this template file.

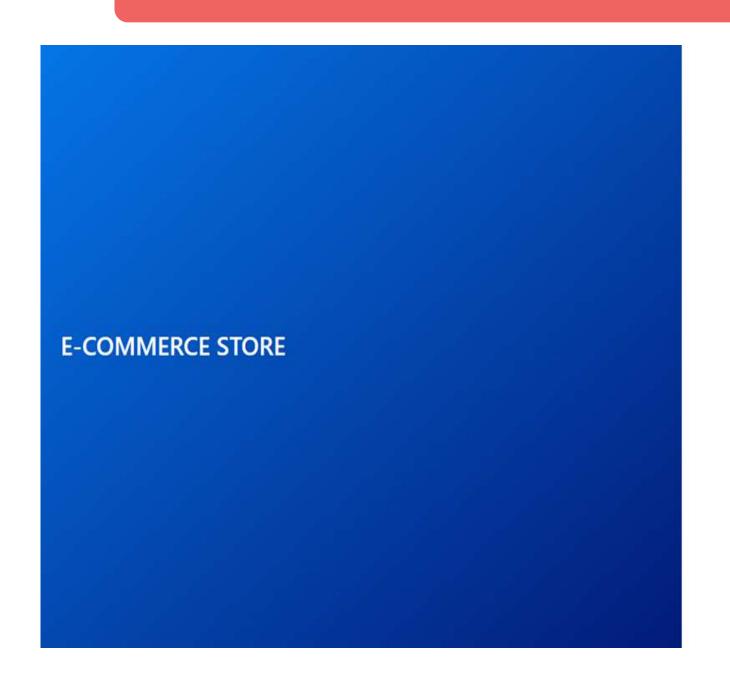
login.component.ts

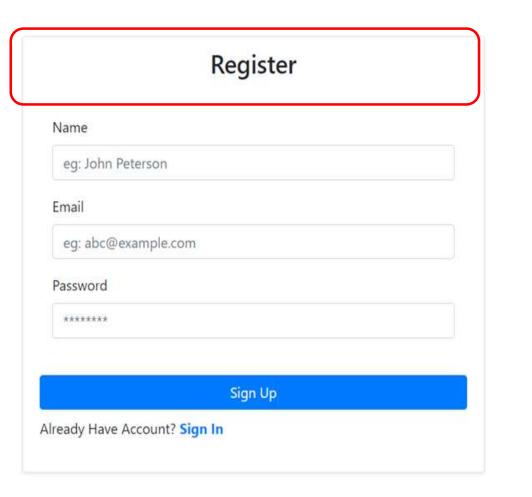
Logic will be written in typescript file.



Web Page for User Registration Component

A new user needs to register.

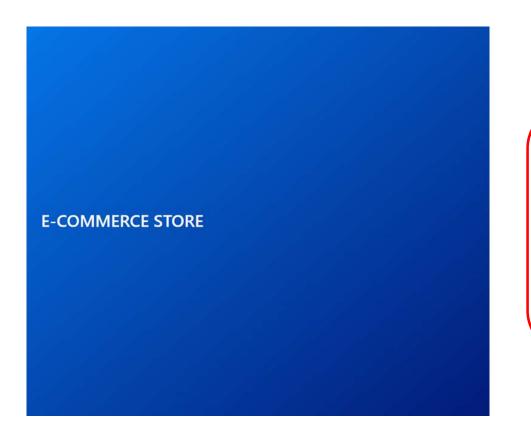


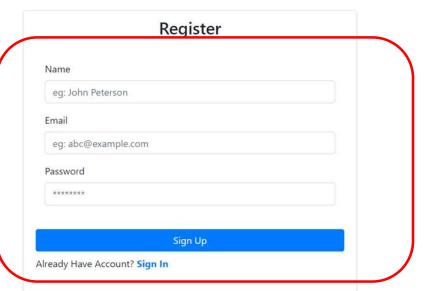




Web Page for User Registration Component

Design the register component to take the name, email, and password as input to register the user on the e-store web app.





After registration, navigate to the home page which will have a navigation bar with various options.



Web Page for User Registration Component

In the directory: src/app/pages/register/

register.component.css

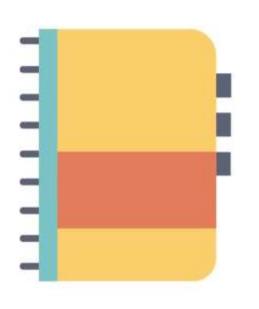
CSS goes here to design the page and forms.

register.component.html

HTML code is written in this template file.

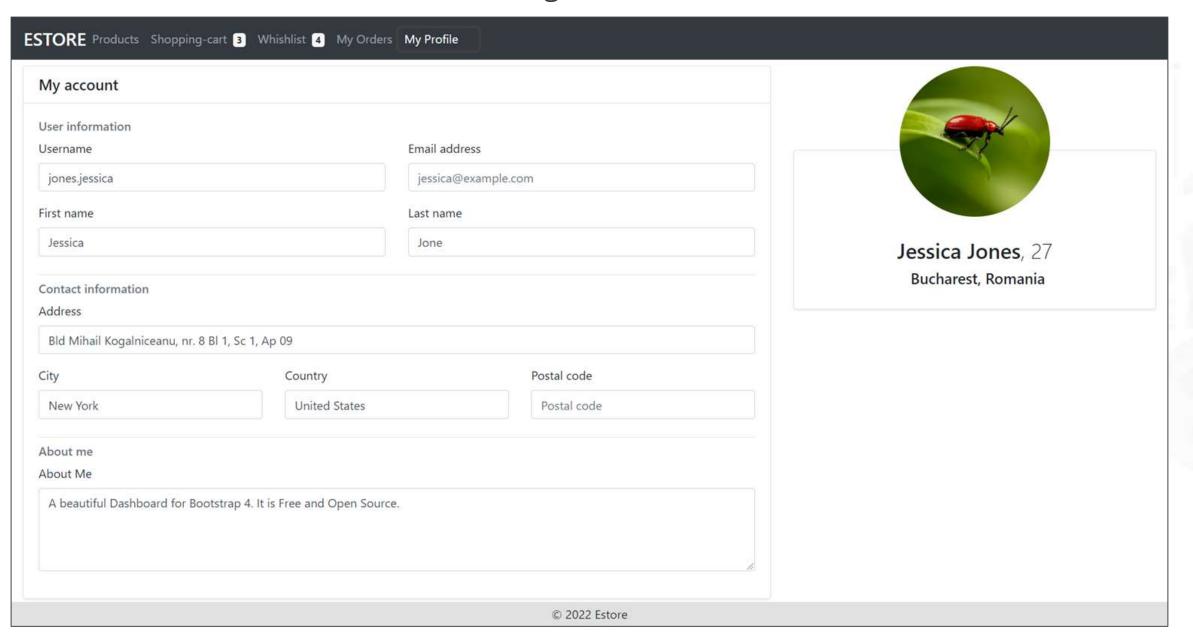
register.component.ts

Logic will be written in typescript file.



Web Page for Profile Component

User should be able to manage their profile by navigating to the profile component on navigation bar.





Web Page for Profile Component

The web page should have details of the user. The user should be able to manage contact information, which includes the address for delivering the order.

ESTORE Products Shopping-cart 3 Whishlist 4 My Orders My Profile			
My account			
User information Username jones.jessica		Email address jessica@example.com	
Jessica		Jone Jone	Jessica Jones, 27
Contact information Address Bld Mihail Kogalniceanu, nr. 8	BI 1, Sc 1, Ap 09		Bucharest, Romania
City	Country	Postal code	
New York	United States	Postal code	
About me About Me A beautiful Dashboard for Boo	otstrap 4. It is Free and Open Sour	ce.	
© 2022 Estore			



Web Page for Profile Component

In the directory: src/app/pages/user-profile/

user-profile.component.css

CSS goes here to design the page and forms.

user-profile.component.html

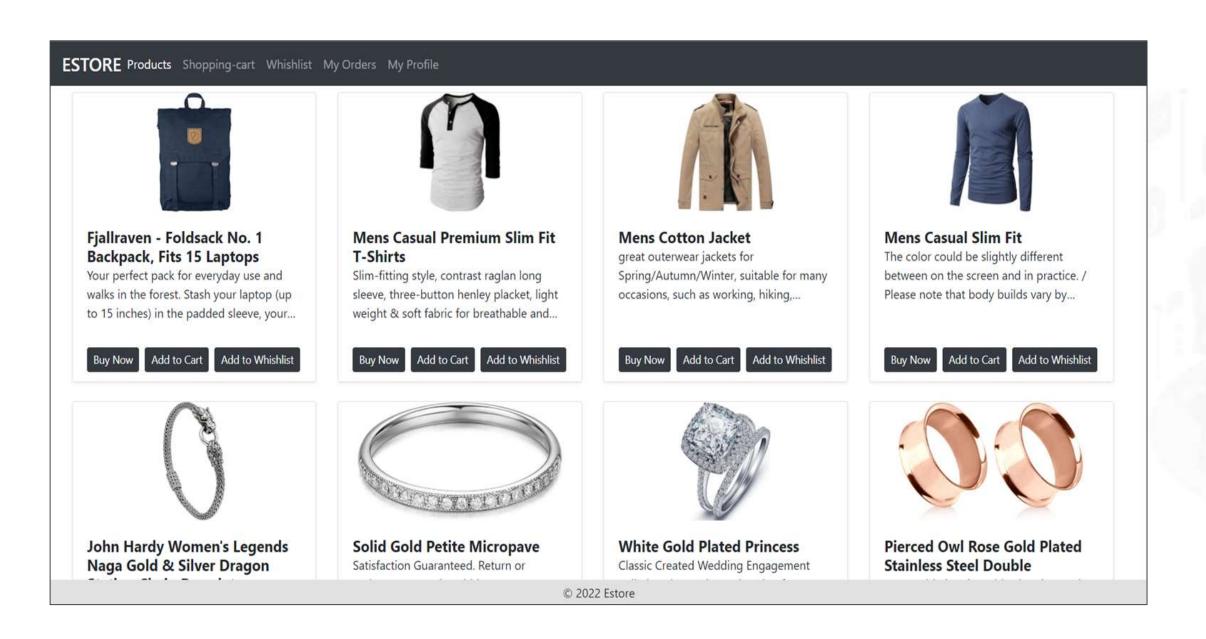
HTML code is written in this template file.

user-profile.component.ts

Logic will be written in typescript file.

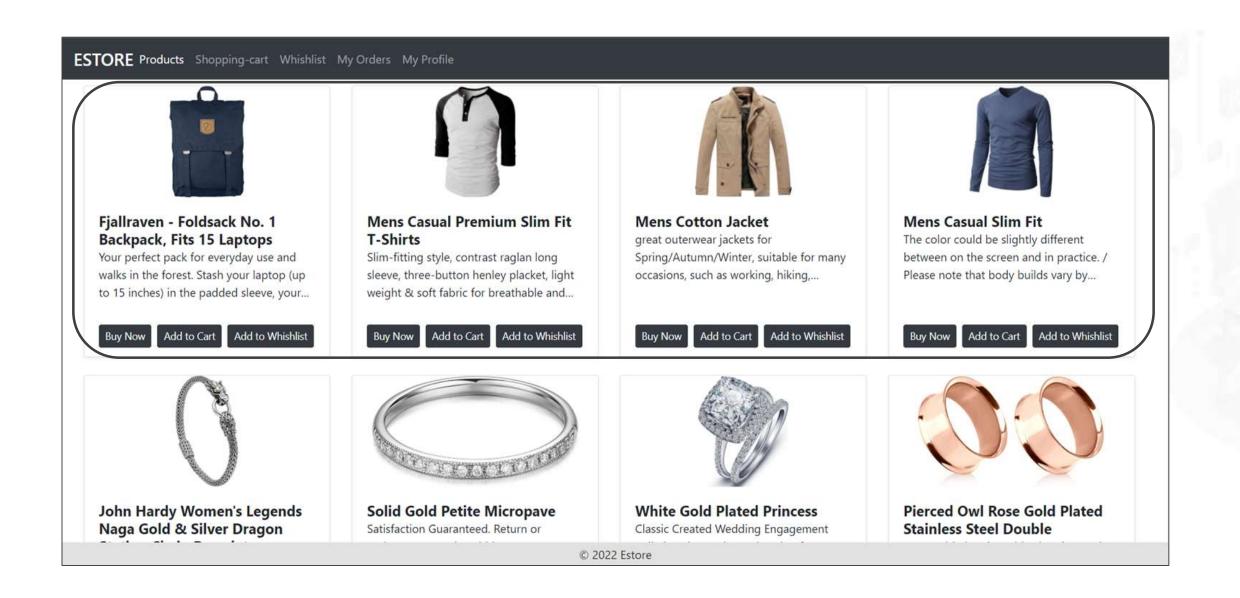


UI should be developed to show the various products added by the admin.



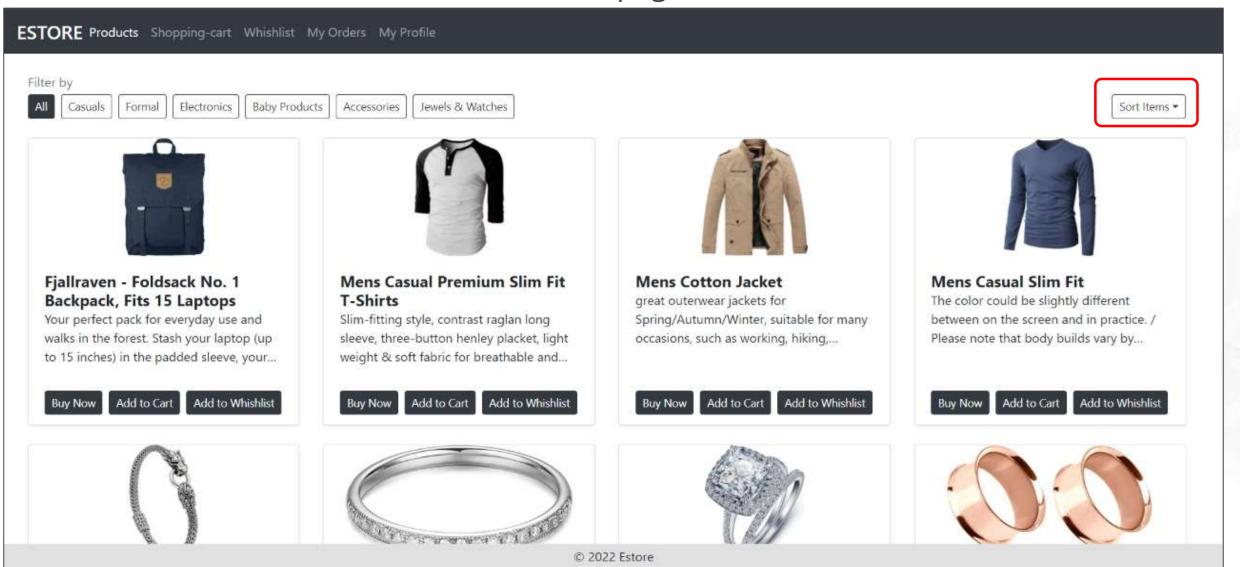


All the products should be listed with options to buy the product, add it to the cart, or add it to the Whishlist.





Search, sort, and filter operations can also be implemented on the same web page.





In the directory: src/app/pages/products/

products.component.css

CSS goes here to design the page and forms.

products.component.html

HTML code is written in this template file.

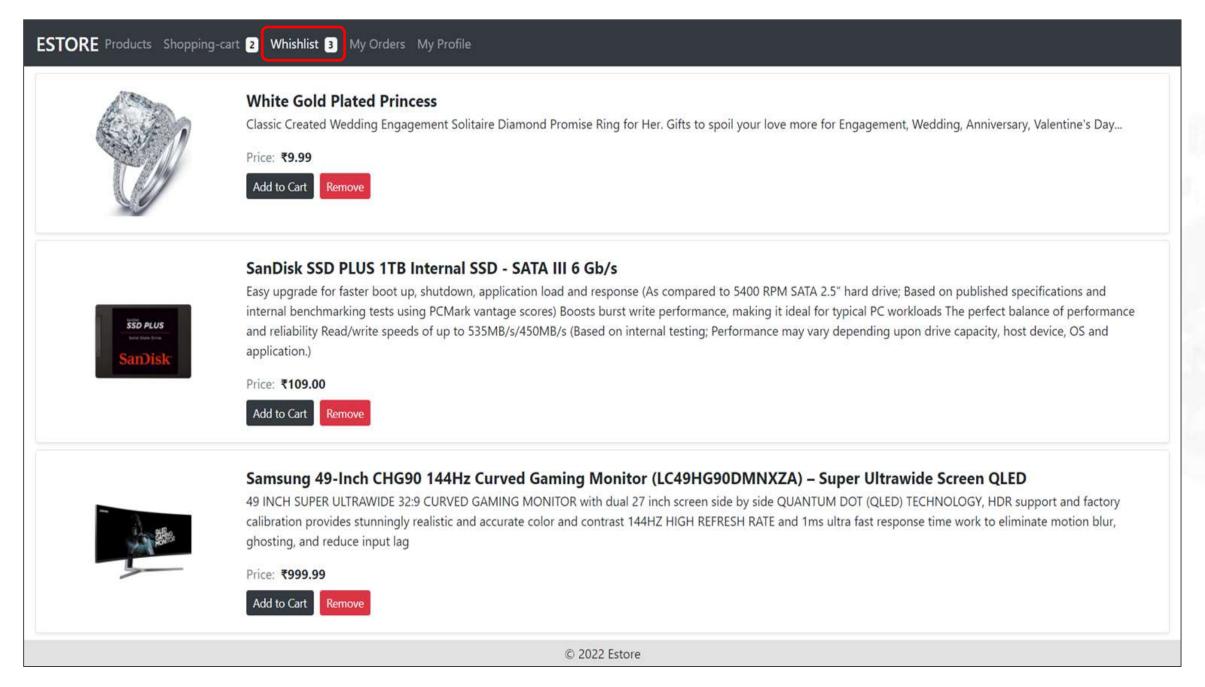
products.component.ts

Logic will be written in typescript file.



Web Page for Whishlist Component

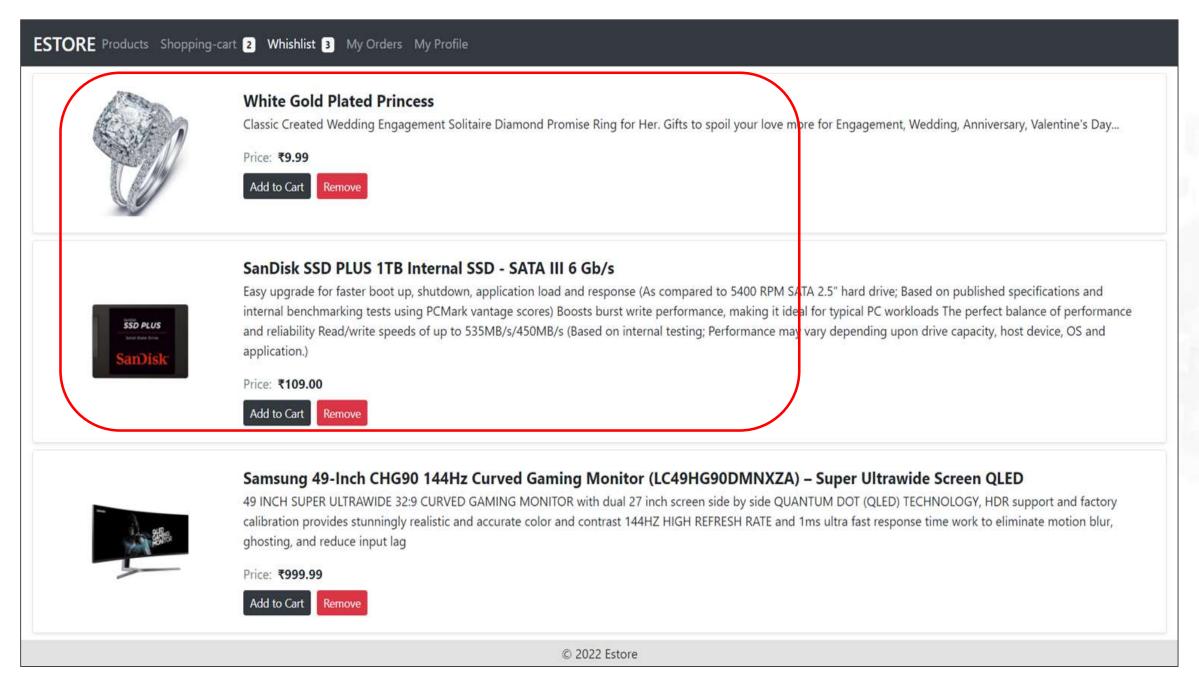
User should be able to mark any product as favorite by moving it to the Whishlist.





Web Page for Whishlist Component

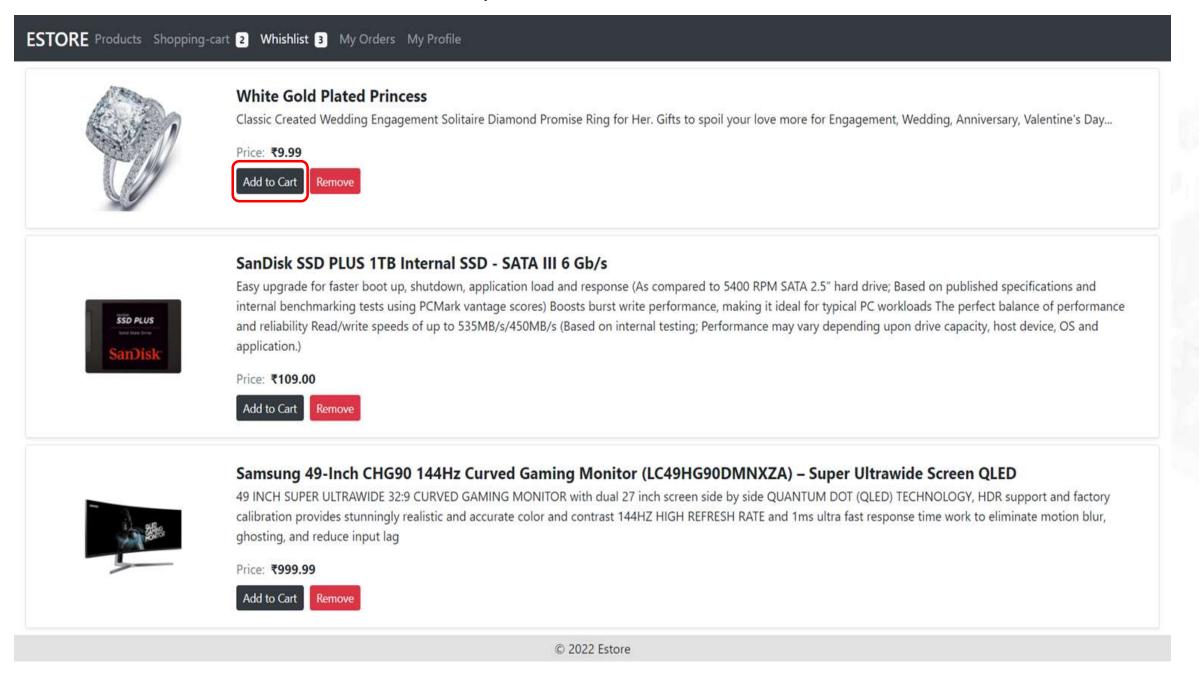
The Whishlist component should show the list of products that a user may buy in the future.





Web Page for Whishlist Component

There should be a button to move the product to cart by clicking the same appearing on the product item.





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Web Page for Whishlist Component

In the directory: src/app/pages/Whishlist/

Whishlist.component.css

CSS goes here to design the page and forms.

Whishlist.component.html

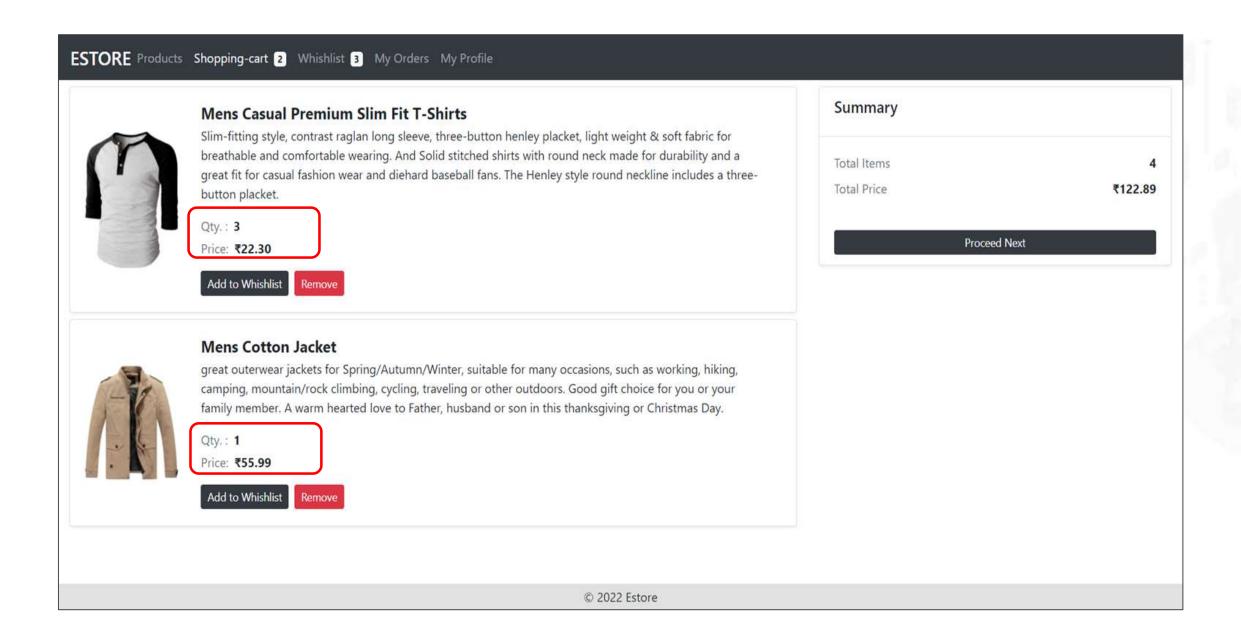
HTML code is written in this template file.

Whishlist.component.ts

Logic will be written in typescript file.

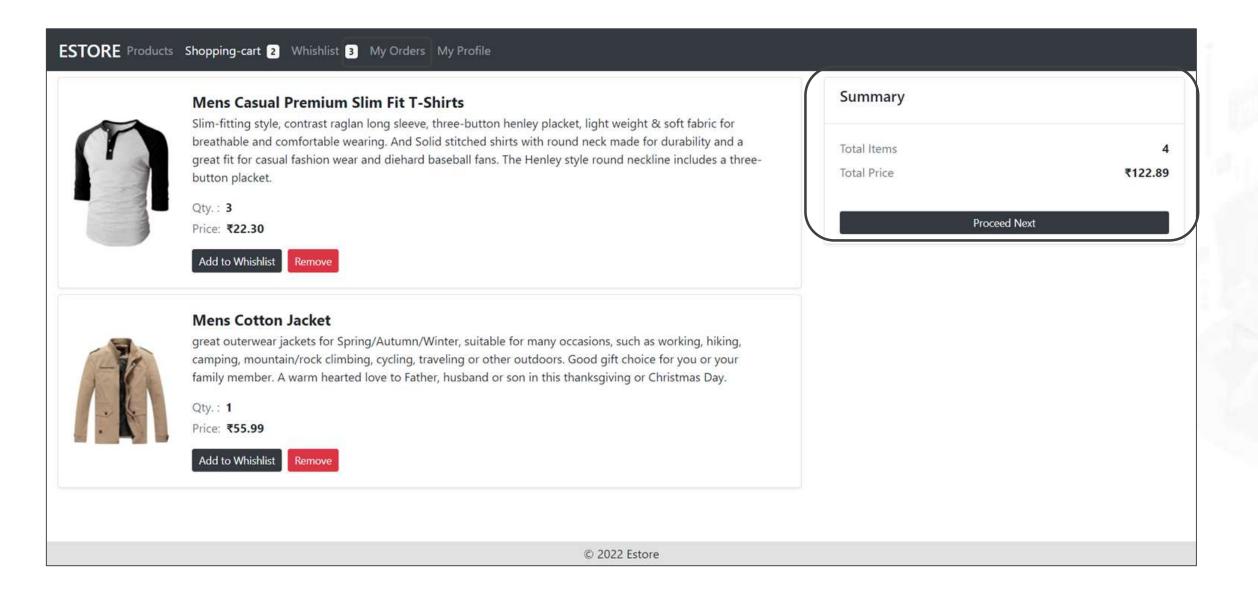


The navigation bar is used to navigate to the cart tab, where users should see a list of the products along with their quantities and prices.



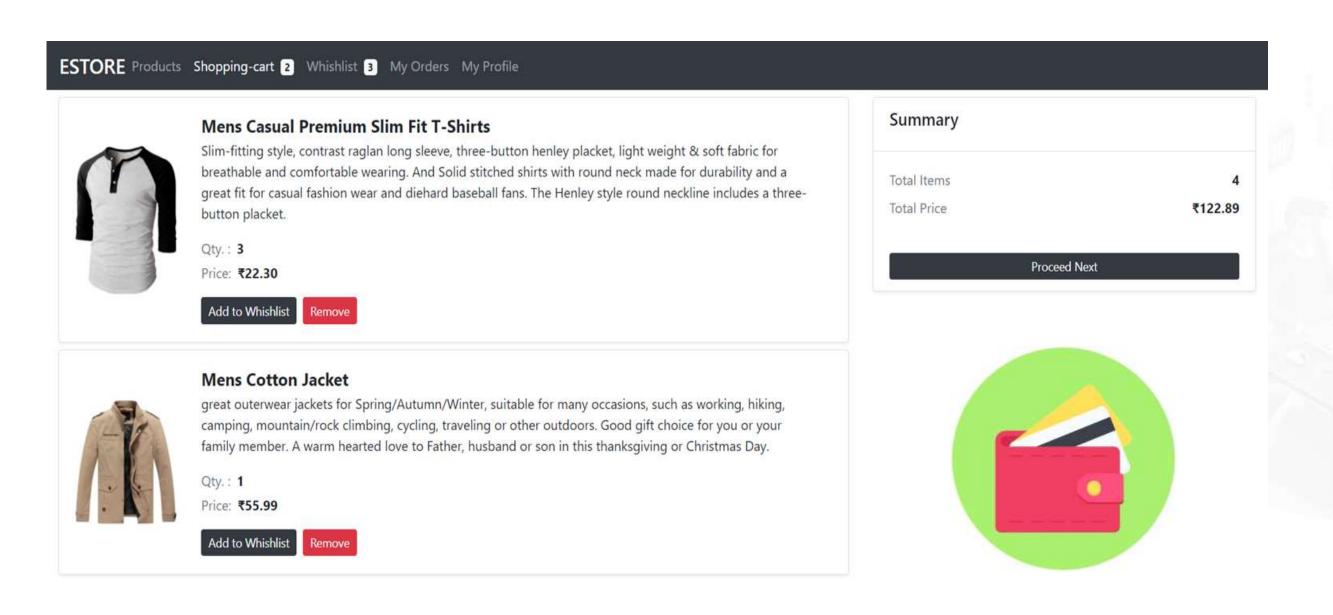


A summary of the products to be placed should be shown along with the option to buy, which is to place an order.





Payment's method page can also be implemented.





In the directory: src/app/pages/shopping-cart/

shopping-cart.component.css

CSS goes here to design the page and forms.

shopping-cart.component.html

HTML code is written in this template file.

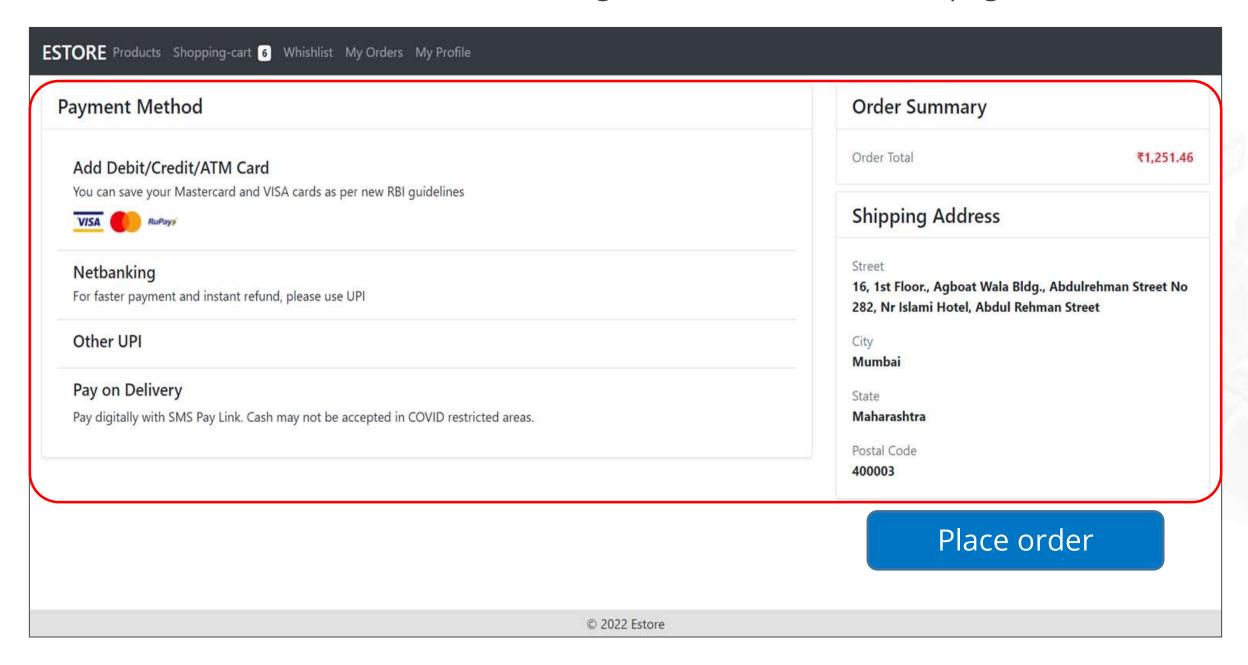
Shopping-cart.component.ts

Logic will be written in typescript file.



Web Page for Checkout Component

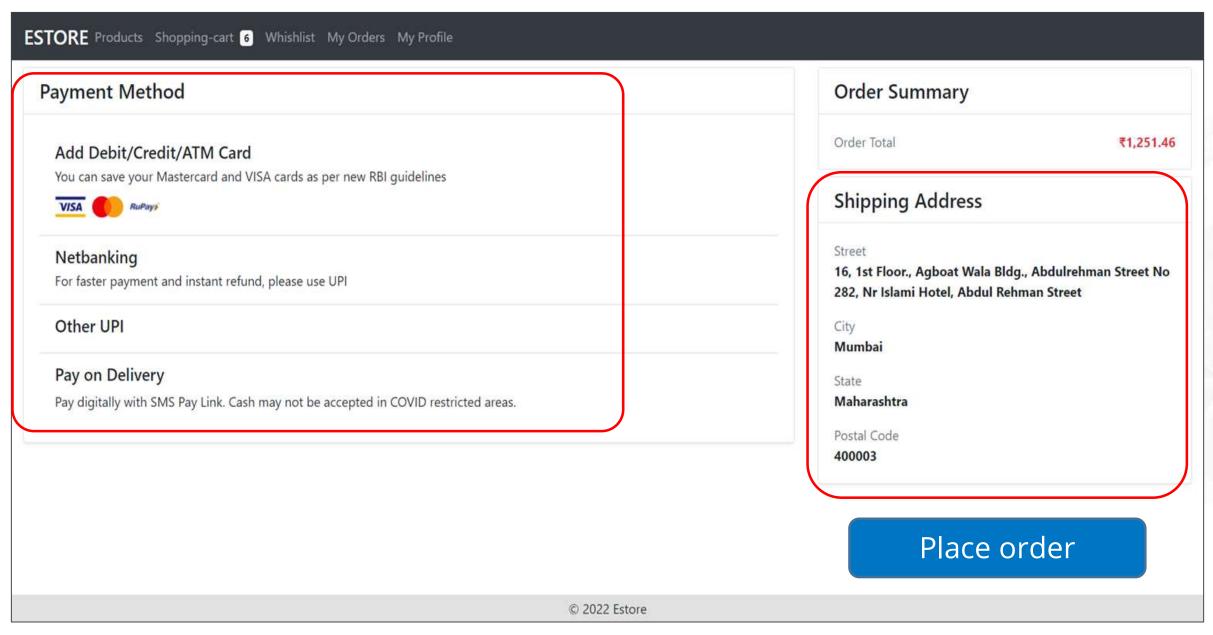
From the Cart, user should navigate to the final checkout page.





Web Page for Checkout Component

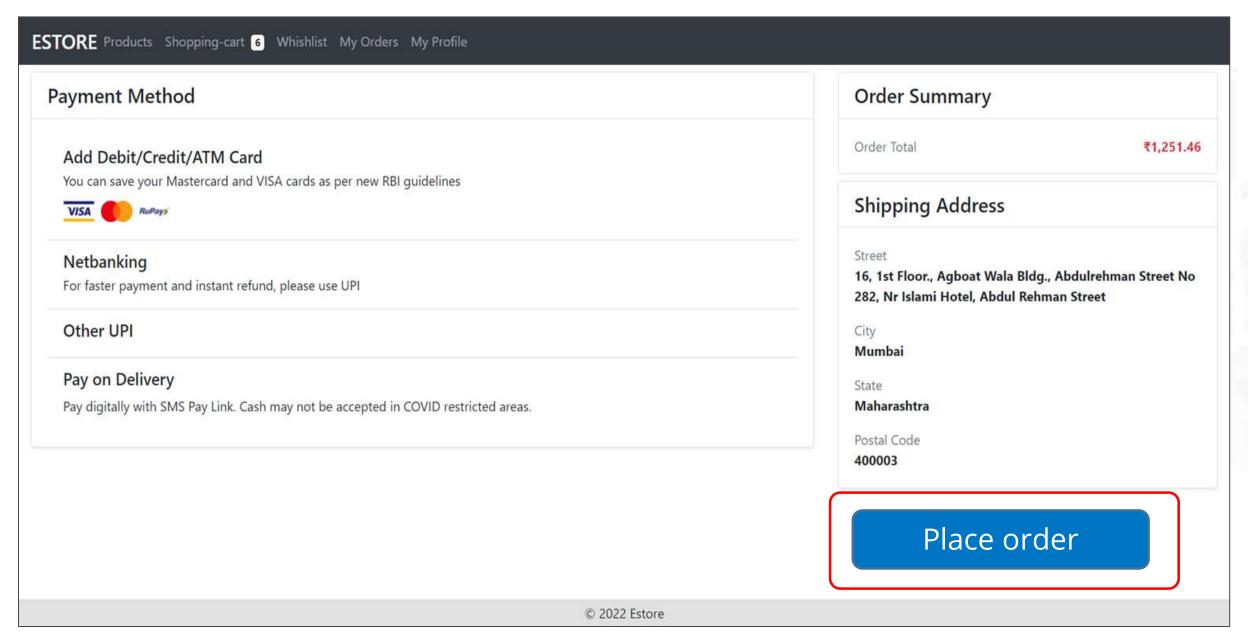
User should choose the payment method and address for the confirmation.





Web Page for Checkout Component

Finally, click on the place order button, and a successful order creation message will be shown to the user.





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Web Page for Checkout Component

In the directory: src/app/pages/checkout/

checkout.component.css

CSS goes here to design the page and forms.

checkout.component.html

HTML code is written in this template file.

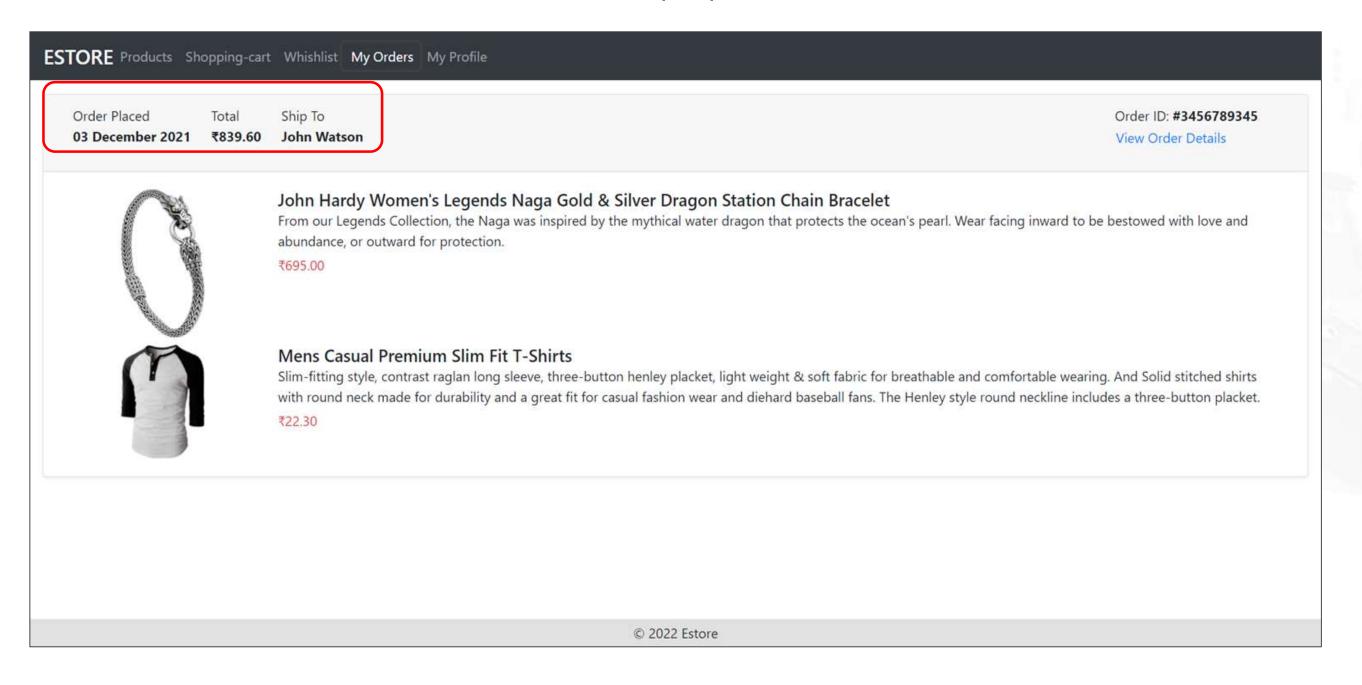
checkout.component.ts

Logic will be written in typescript file.



Web Page for Orders Component: View Orders

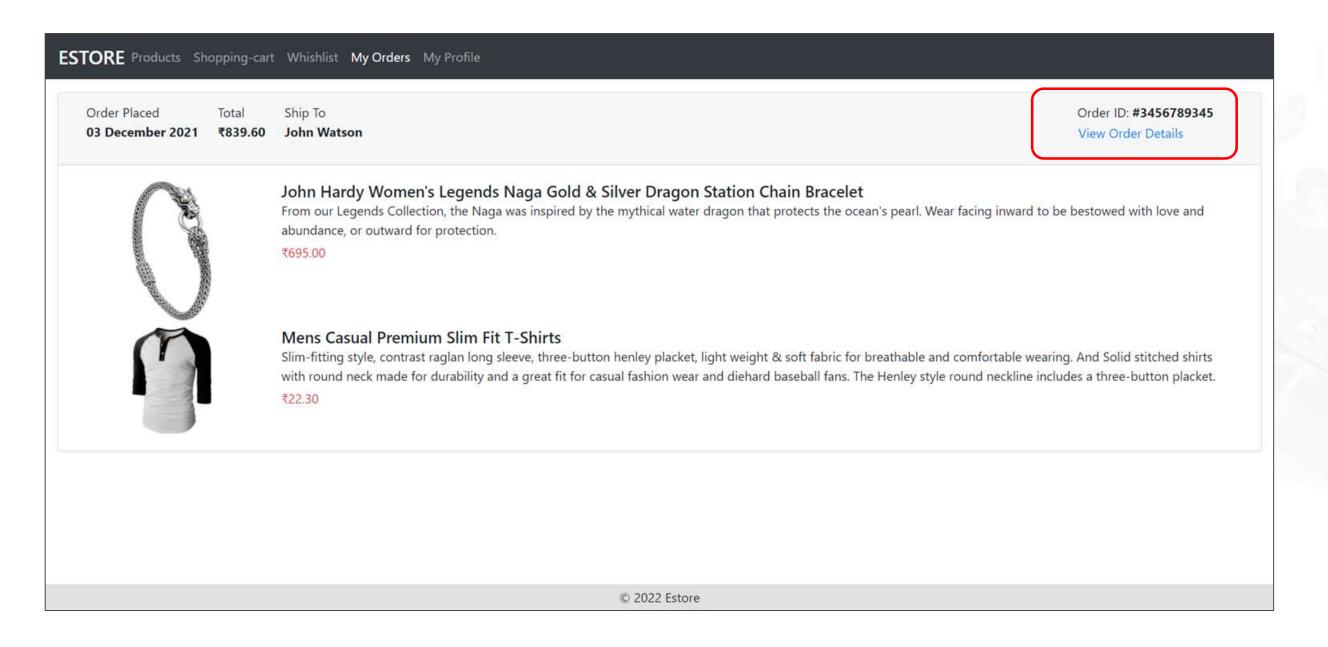
As the user places an order from their account, the list of orders should be displayed to them for reference purposes with order status.





Web Page for Orders Component: View Orders

In the future, the detailed model should be opened when connected to the backend with the click of View order details.





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Web Page for Orders Component - View Orders

In the directory: src/app/pages/orders/

order.component.css

CSS goes here to design the page and forms.

order.component.html

HTML code is written in this template file.

order.component.ts

Logic will be written in typescript file.





TECHNOLOGY

Database Structure for End User



Creating Database in MySQL

MySQL CLI usage to create and work with database

Use database e-commerce

Selects current working database

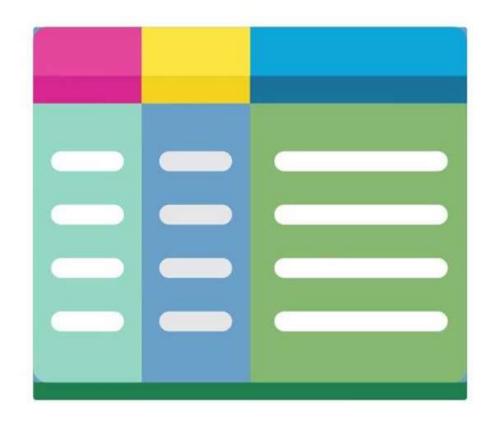


Creating Tables

Creating Table

Many tables are common for the dashboards. Example: Order Table in Admin will be used by the Web App for end users as well.

Only the Tables required for Cart and the Whishlist should be created.



The rest of the tables are already created during the Admin table structure.



Generating User Table for Login

Ensure the database is selected as ecommerce, or you can execute the command to choose the ecommerce database as follows:

Use database ecommerce;

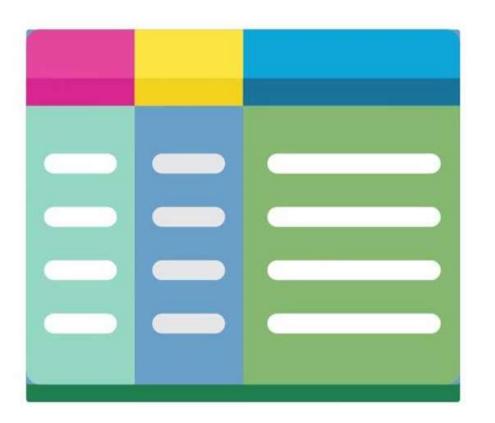
```
INTEGER NOT NULL PRIMARY KEY AUTO INCREMENT,
userId
                     VARCHAR (50) NOT NULL,
email
                     VARCHAR (50) NOT NULL,
password
fullName
                     VARCHAR (255) NOT NULL,
                      VARCHAR (50) DEFAULT NULL,
street
                     VARCHAR (50) DEFAULT NULL,
city
                     VARCHAR (50) DEFAULT NULL,
state
country
                     VARCHAR (50) DEFAULT NULL,
pincode
                      INTEGER,
                      VARCHAR (1000),
image
                      BIGINT,
contact
                     DATETIME DEFAULT CURRENT TIMESTAMP
added0n
NOT NULL,
```



Generating User Table for Login

For the simplicity, one address per user is considered.

In case one user has many addresses, then Address tables are created separately with primary and foreign key relationships.



Generating Whishlist Table

Make sure the database is selected as ecommerce, or you can execute the following command to select the ecommerce database:

Use database ecommerce;

```
CREATE TABLE WHISHLIST {

WhishlistId INTEGER NOT NULL PRIMARY KEY AUTO_INCREMENT,

productId INTEGER NOT NULL,

userId INTEGER NOT NULL,

FOREIGN KEY (productId) REFERENCES PRODUCTS (productId),

FOREIGN KEY (userId) REFERENCES USERS (userId)

}
```

Generating Cart Table

Make sure the database is selected as ecommerce, or you can execute the following command to make the database selection for ecommerce as:

Use database ecommerce;

Key Takeaways

- For basic operations, the web page templates are developed using HTML and CSS.
- User can manage their profile by navigating to the profile component on the navigation bar.
- Ul is developed to show the various products added by the admin.
- The Whishlist component shows the list of products that a user may buy in the future.



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Key Takeaways

- The navigation bar is used to navigate to the cart tab, where the user can see a list of the products along with their quantity and price.
- MySQL CLI is used to create and work with database.
- Address table are created separately with primary and foreign key relationship.

