Securing Ecommerce Transactions Using Blockchain

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RELEVANCE

This is developed for Kudumbhasree unit to help them for saling their products

Through an online platform.

Blockchain is used for securing the order transaction details.

DESCRIPTION

- TheDesiAchar is a web application that manages secure ecommerce transaction of pickles for the ladies self help group.
- The DesiAchar application has two web interfaces:
- 1. Client application Used by the end users to buy pickles
- 2. Seller application Used by the sellers to configure, manage and maintain the orders
- The application uses blockchain technology to securely manage the transaction history. The transaction made by each client would be hosted on the Ethereum block chain to make it secure.
- The clients or end users can use the web interface to manage cart, place orders
- The sellers can update the order status and this would be moved or stored onto a block in the Ethereum chain.

OBJECTIVE

- To provide security for order transaction
- To provide online platform for Kudumbhasree unit

Existing System

- We are familiar with shopping site which helps the client to get the product and the sellers can configure manage and maintain the orders. But it have some drawbacks :-
- Hackers can hack the order transactions
- There is no existing system for the Kudumbhasree unit to sell their products.

PROPOSED SYSTEM

This system is mainly proposed for the Kudumbhasree unit to help them for selling their product and also it provides security in order transaction.

MODULES

- Seller Registration/Login :-
- Seller can register and login to this page
- Seller can add their details to the site
- Seller can add the product, edit and can delete it.
- Seller can view the orders and can change the status.

- Client Registration/Login :-
- Client can view the products and can move the products to bag
- Checkout option is used for placing an order.

- Blockchain Generation :-
- Generated for securing the order transactions

TOOLS USED

Front End :- Angular

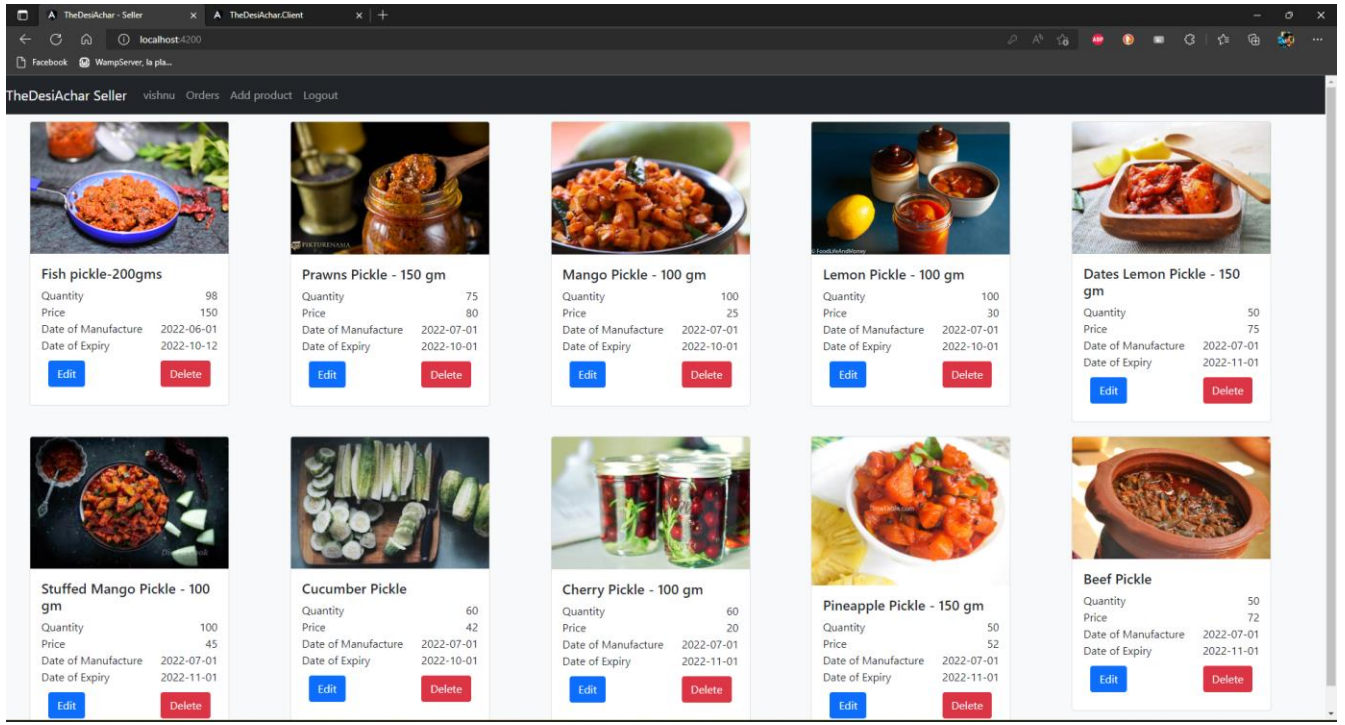
Back End :- Sqlserver,Visual studio code

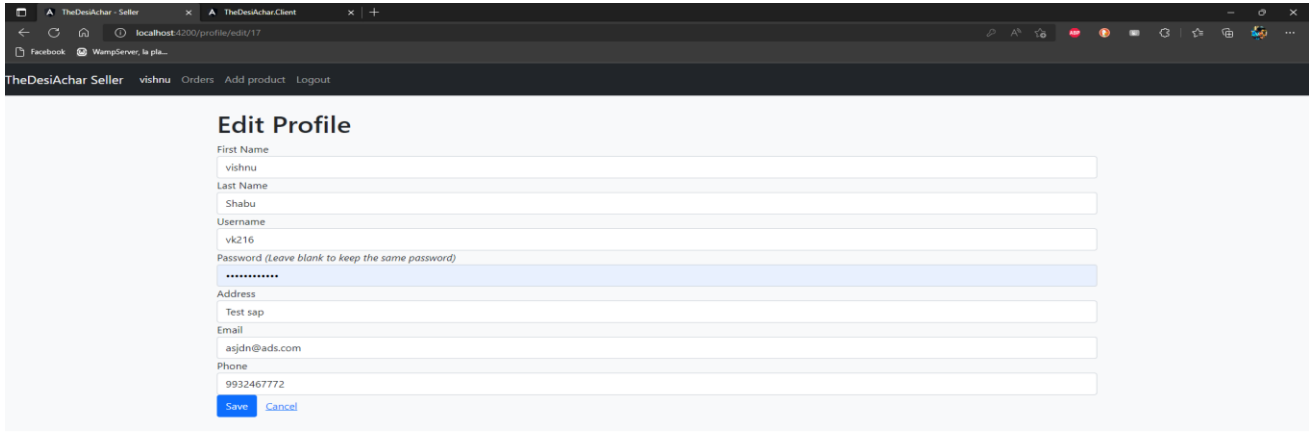
Operating System :- Windows 11

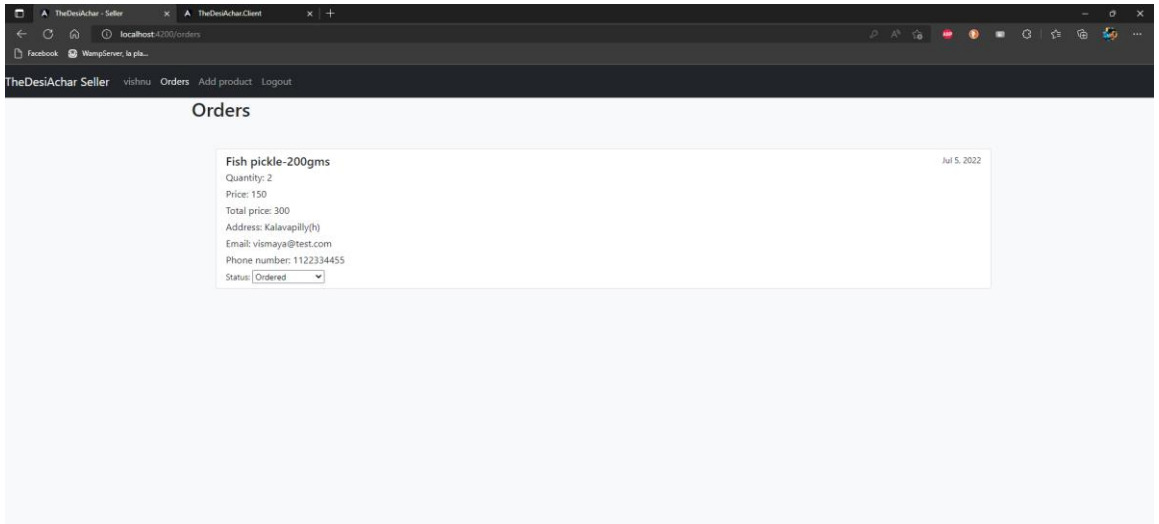
Framework :- .Netcore

Blockchain :- Ethereum

SCREENSHOTS




TheDesiAchar - Seller
TheDesiAchar.Client
localhost:4200/profile/edit/17
Facebook
WampServer, la pla...
TheDesiAchar Seller
vishnu
Orders
Add product
Logout
Edit Profile
First Name
vishnu
Last Name
Shabu
Username
vk216
Password (Leave blank to keep the same password)
Address
Test sap
Email
asjdn@ads.com
Phone
9932467772
Save
Cancel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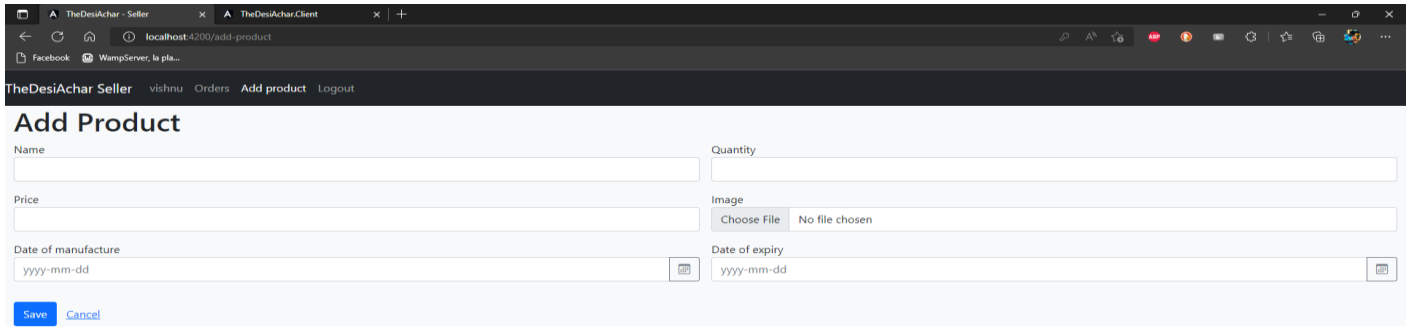
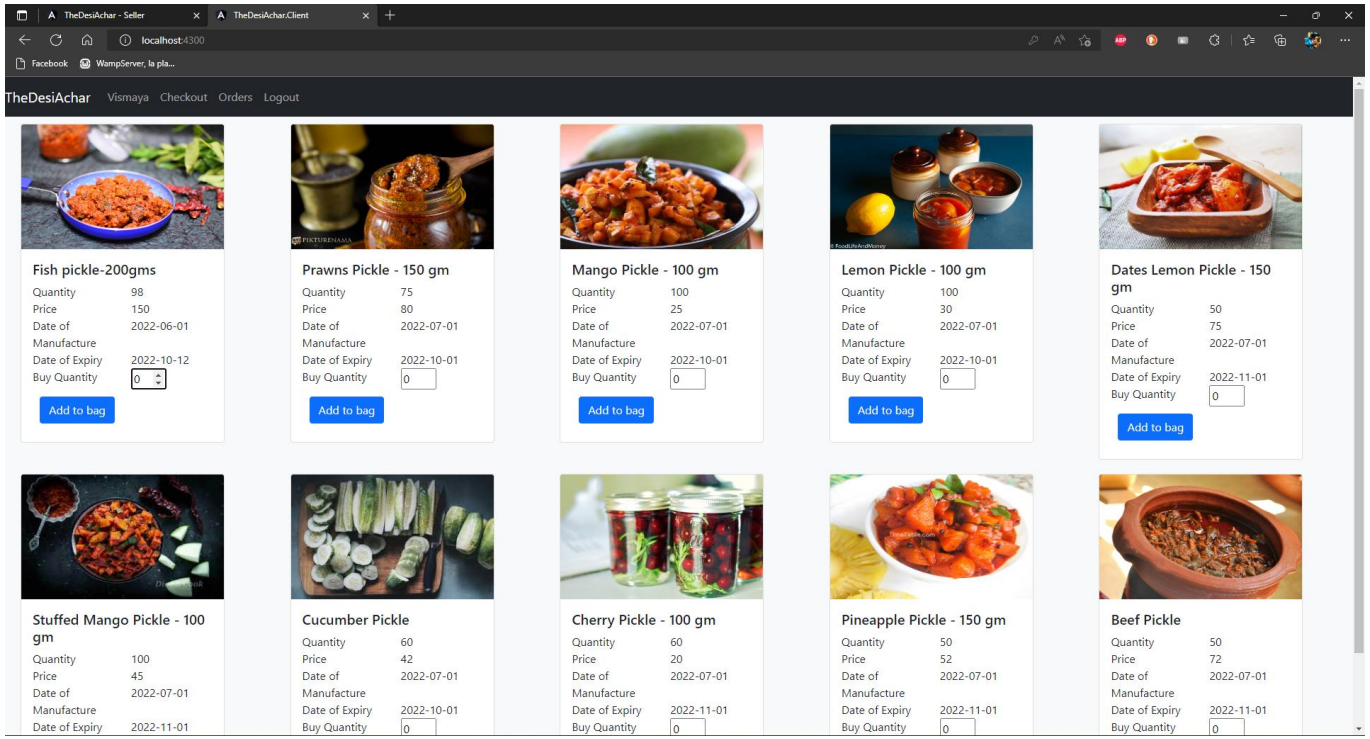
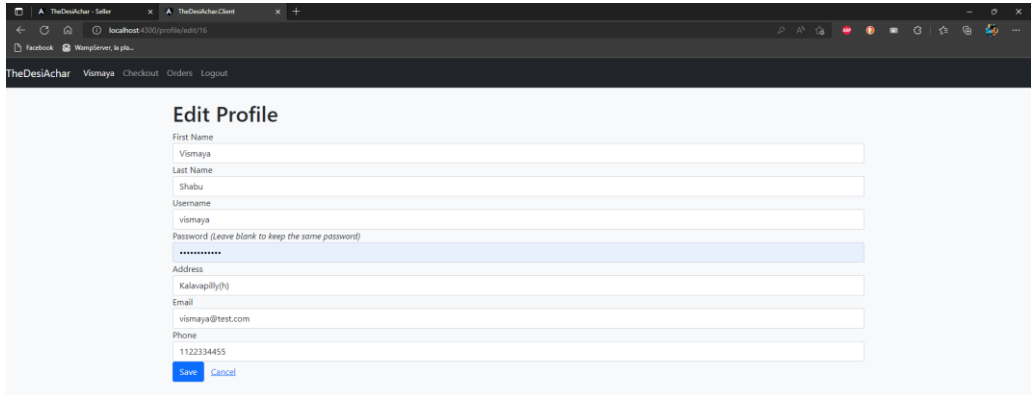
localhost:4200/orders
Facebook
WampServer, la pla...
TheDesiAchar Seller
vishnu
Orders
Add product
Logout
Orders
Fish pickle-200gms
Jul 5, 2022
Quantity: 2
Price: 150
Total price: 300
Address: Kalavapilly(h)
Email: vismaya@test.com
Phone number: 1122334455
Status: Ordered


TheDesiAchar - Seller
TheDesiAchar.Client
localhost:4200/add-product
Facebook
WampServer, la pla...
TheDesiAchar Seller
vishnu
Orders
Add product
Logout
Add Product
Name
Quantity
Price
Image
Choose File
No file chosen
Date of manufacture
yyyy-mm-dd
Date of expiry
yyyy-mm-dd
Save
Cancel


TheDesiAchar - Seller
TheDesiAchar.Client
localhost:4300
Facebook
WampServer, la pla...
TheDesiAchar
Vismaya
Checkout
Orders
Logout
Fish pickle-200gms
Quantity 98
Price 150
Date of Manufacture 2022-06-01
Date of Expiry 2022-10-12
Buy Quantity 0
Add to bag
Prawns Pickle - 150 gm
Quantity 75
Price 80
Date of Manufacture 2022-07-01
Date of Expiry 2022-10-01
Buy Quantity 0
Add to bag
Mango Pickle - 100 gm
Quantity 100
Price 25
Date of Manufacture 2022-07-01
Date of Expiry 2022-10-01
Buy Quantity 0
Add to bag
Lemon Pickle - 100 gm
Quantity 100
Price 30
Date of Manufacture 2022-07-01
Date of Expiry 2022-10-01
Buy Quantity 0
Add to bag
Dates Lemon Pickle - 150 gm
Quantity 50
Price 75
Date of Manufacture 2022-07-01
Date of Expiry 2022-11-01
Buy Quantity 0
Add to bag
Stuffed Mango Pickle - 100 gm
Quantity 100
Price 45
Date of Manufacture 2022-07-01
Date of Expiry 2022-11-01
Cucumber Pickle
Quantity 60
Price 42
Date of Manufacture 2022-07-01
Date of Expiry 2022-10-01
Buy Quantity 0
Cherry Pickle - 100 gm
Quantity 60
Price 20
Date of Manufacture 2022-07-01
Date of Expiry 2022-11-01
Buy Quantity 0
Pineapple Pickle - 150 gm
Quantity 50
Price 52
Date of Manufacture 2022-07-01
Date of Expiry 2022-11-01
Buy Quantity 0
Beef Pickle
Quantity 50
Price 72
Date of Manufacture 2022-07-01
Date of Expiry 2022-11-01
Buy Quantity 0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TheDesiAchar.Client
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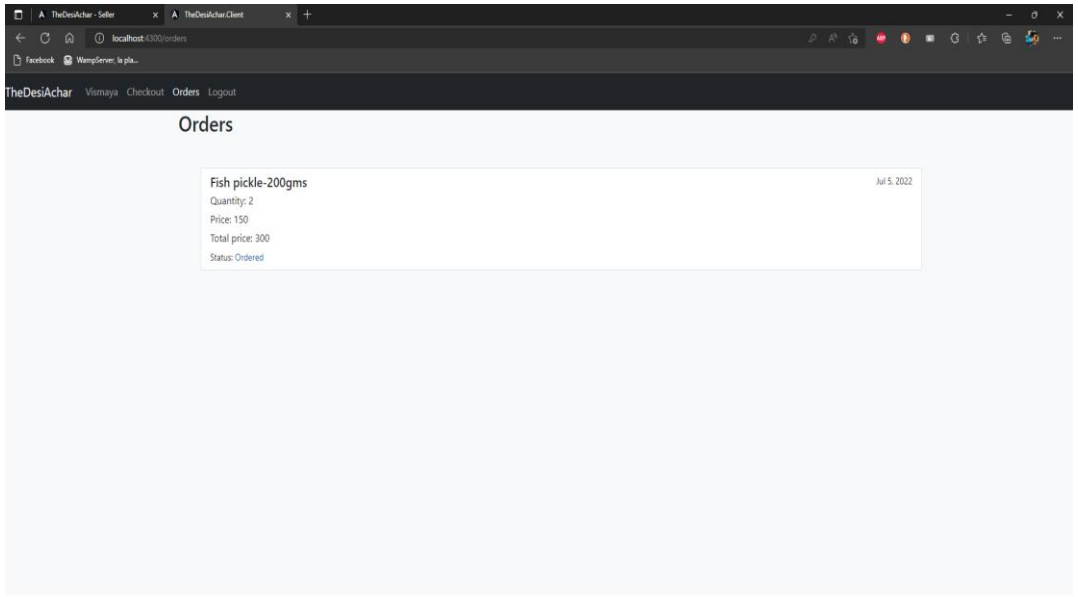
Facebook
WampServer, la pla...
TheDesiAchar
Vismaya
Checkout
Orders
Logout
Edit Profile
First Name
Vismaya
Last Name
Shabu
Username
vismaya
Password (Leave blank to keep the same password)
Address
Kalavapilly(h)
Email
vismaya@test.com
Phone
1122334455
Save
Cancel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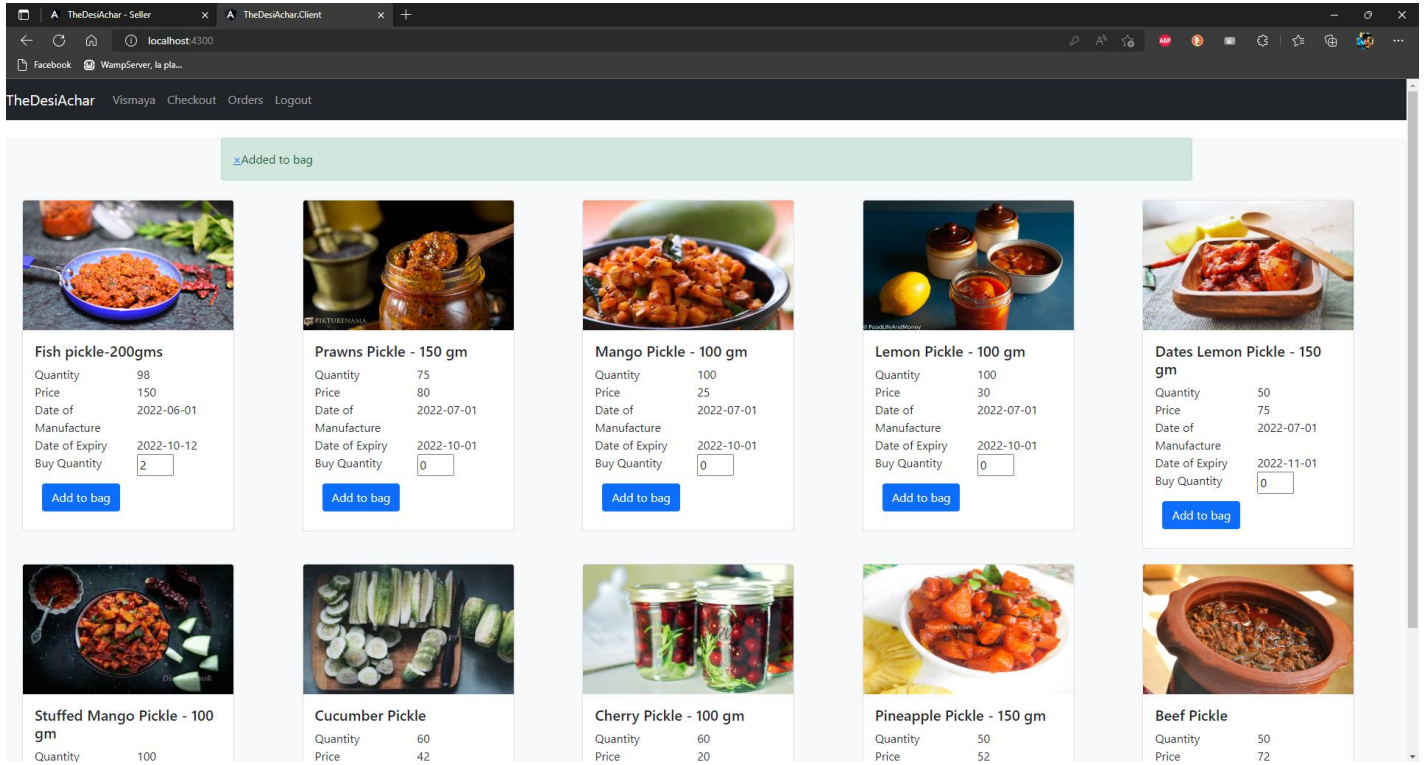
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Pineapple Pickle - 150 gm
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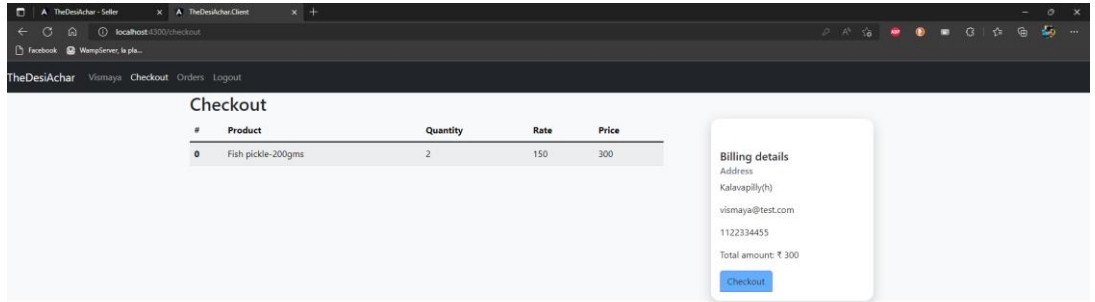
Beef Pickle
Quantity 50
Price 72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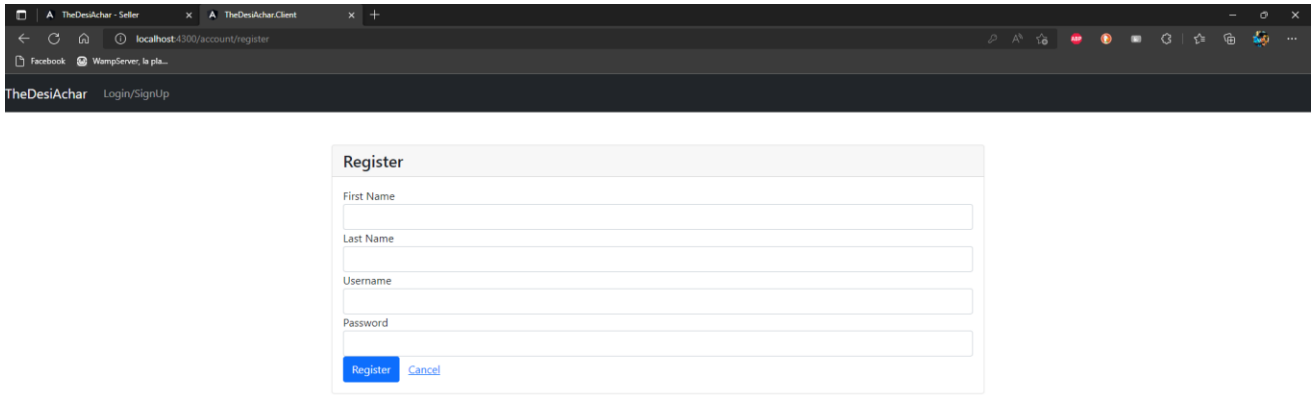
TheDesiAchar.Client
localhost:4300/checkout
Facebook
WampServer, la pla...
TheDesiAchar
Vismaya
Checkout
Orders
Logout
Checkout
Product Quantity Rate Price
0 Fish pickle-200gms 2 150 300
Billing details
Address
Kalavapilly(h)
vismaya@test.com
1122334455
Total amount: ₹ 300
Checkout

TheDesiAchar - Seller
TheDesiAchar.Client
localhost:4300/account/login
Facebook
WampServer, la pla...
TheDesiAchar
Login/SignUp
Login
Username
vismaya
Password
Login
Register


TheDesiAchar - Seller
TheDesiAchar.Client
localhost:4300/account/register
Facebook
WampServer, la pla...
TheDesiAchar
Login/SignUp
Register
First Name
Last Name
Username
Password
Register
Cancel