

TCS Project - eMall

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Source Code link: <https://github.com/xuanyudo/eMall>

Project Setup:

- Clone or download source code from above url
 - npm install to download all necessary libraries (bootstrap, jquery, popper.js etc...)
 - mongod to run the db server
 - use mongo command to insert a user which has role of 'admin'
 - node/nodemon app.js to run the rest api server
 - ng serve -o to serve the project on your localhost:4200
-

Relevant Skills:

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none">• Angular• node• mongodb• mongoose• jwt web token• localStorage• vscode• ngModel• Angular router | <ul style="list-style-type: none">• ngIf• ngFor• ngForm• bootstrap• typescript• html5• css• httpClient• Dependency Injection |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Database Schema:

- url: localhost:27017/mydb
- table
 - User
 - username:String
 - role:String ← either 'admin' or 'customer'
 - email:String
 - password:String
 - passwordConfirmation:String
 - brands
 - bname:String
 - products
 - pname:String
 - price:Number

- imageUrl:String
 - brand:String
 - releaseDate:Date
-

Api endpoints + actions:

- User
 - GET: getUser → /user/users
 - POST: register customer → /user/register
 - POST: register admin → /user/register1
 - POST: login check → /user/login
 - DELETE: deleteUserById → /user/deleteUser/:id
 - Brand
 - GET: getBrands → /brand/brands
 - POST: addBrand → /brand/addBrand
 - DELETE: deleteBrand → /brand/deleteBrand/:id
 - Product
 - GET: getProducts → /product/products
 - GET: getProductById → /product/products/:id
 - POST: addProduct → /product/addProduct
 - PUT: updateProduct → /product/updateProduct
 - DELETE: deleteProductById → product/deleteProduct/:id
-

Components:

- header
 - include in all page as header
 - based on user role, it will display two different header
 - admin: manage user, manage brand, manage product
 - customer: all product, cart
 - logout function
- home
 - page after login success
 - two different views with admin and customer
- login
 - login form page
 - once login store jwt token meta data in localStorage
- register
 - register form page
 - only able to register customer
- brand
 - A table view to display all brands
 - able to add new brand and delete current brand
- user
 - A table view to display all users
 - current user will highlight green
 - admin can register another admin user

- admin can delete other user
 - add-user
 - actual register admin page
 - once success return back to user page with msg on top
 - product
 - A table view of all products
 - can add new product
 - can modify current product detail
 - can delete product
 - customer-product
 - a flex view of products for customer
 - customer can filter the view with radio button by brand name
 - customer can add product to cart
 - cart
 - A table view of products in cart with quantity
 - keep track of total price and number
 - can adjust product quantity
 - auto remove product if quantity is 0 or negative
 - can checkOut which navigate back to product page with message
-

Highlight:

- responsive UI design
 - REST API
 - Cart stored locally
 - Dependency Injection
 - form validation
 - jwt token session management
 - use guard to prevent user from accessing page without login
-

Future Feature:

- Wish list
 - better UI design
 - animation in transition or action
-

Screenshots:

HomePage for customer

Once user click Start Shopping without login, it will take user to login page

eMall

Login Register

Welcome to eMall

Check out what you can do here!

Start Shopping

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Login page:

eMall

Login

You have been successfully registered. Please Log in

Email

Password

Sign In

form validation:

eMall

LoginRegister

Login

Email

Email is required.

Password

Password is required.

Sign In

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register page:
has same form validation as login page

eMall

LoginRegister

User Registration

Username

Email

Password

Confirm Password

Register

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eMall

User Registration

Username

Email

Password

Confirm Password

Register

login as admin

home page for admin

admin can manage brand, manage user, manage product

Admin Portal

[Manage brand](#) [Manage User](#) [Manage Product](#) [coke \[Role:admin\]](#) [Logout](#)

You have been successfully loggedin. Welcome home

Welcome to eMall Admin portal

Check out what you can do here!

Manage Brand

Add Brand
Delete Brand!

Manage User

Add User
Delete User!

Manage Product

Add Product
Delete Product
Update Product

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manage user view,
user can add a new admin user and delete other user
current user is highlighted green

Admin Portal

Manage brandManage UserManage Productcoke [Role:admin]Logout

User List

Register Admin

| User# | User Name | User Role | Operations |
|-------|-----------|-----------|------------|
| 1 | jason | admin | Delete |
| 2 | coke | admin | Delete |
| 3 | xuanyu | customer | Delete |
| 4 | sprite | customer | Delete |

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manage brand view,
user can add a new brand,
user can delete brand,
it checks for duplicate brand name

Admin Portal

Manage brandManage UserManage Productcoke [Role:admin]Logout

Brand List

| Brand# | Brand Name | Operations |
|--------|------------|------------|
| 1 | TCS | Delete |
| 2 | apple | Delete |
| 3 | microsoft | Delete |
| 4 | bank | Delete |

Brand name ...

Add Brand

Field Empty! Please enter proper brand name

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manage product view,

user can update product or delete product and add new product

Admin Portal

Manage brandManage UserManage Productcoke [Role:admin]Logout

Product List

Add Product

| Product# | Product Name | Product Description | Price | Upload Date | Operations |
|----------|--------------|-----------------------------------------------------------------------------------------|-------|--------------------------|-------------------------------------|
| 1 | window | asdns121 | \$102 | 2020-11-16T23:39:50.768Z | <div>Update</div> <div>Delete</div> |
| 2 | iphone | iphone 12 | \$600 | 2020-11-16T23:45:11.578Z | <div>Update</div> <div>Delete</div> |
| 3 | something | adkacmancja dcn askjcn kasjnc lajksnc jns bvwuvh cwquhlc iqwhce iasd cnauisdcn iuwqn cu | \$555 | 2020-11-17T05:13:45.511Z | <div>Update</div> <div>Delete</div> |

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update form
this form also has validation for all the field

Admin Portal

Manage brandManage UserManage Productcoke [Role:admin]Logout

Update Product

Product Name

something

Product Price

555

Product Brand

apple

Image Link

https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9Gc

Product Description

adkacmancja dcn askjcn kasjnc lajksnc jns bvwuvh cwquhlc iqwhce iasd cnauisdcn iuwqn cu

Update Product

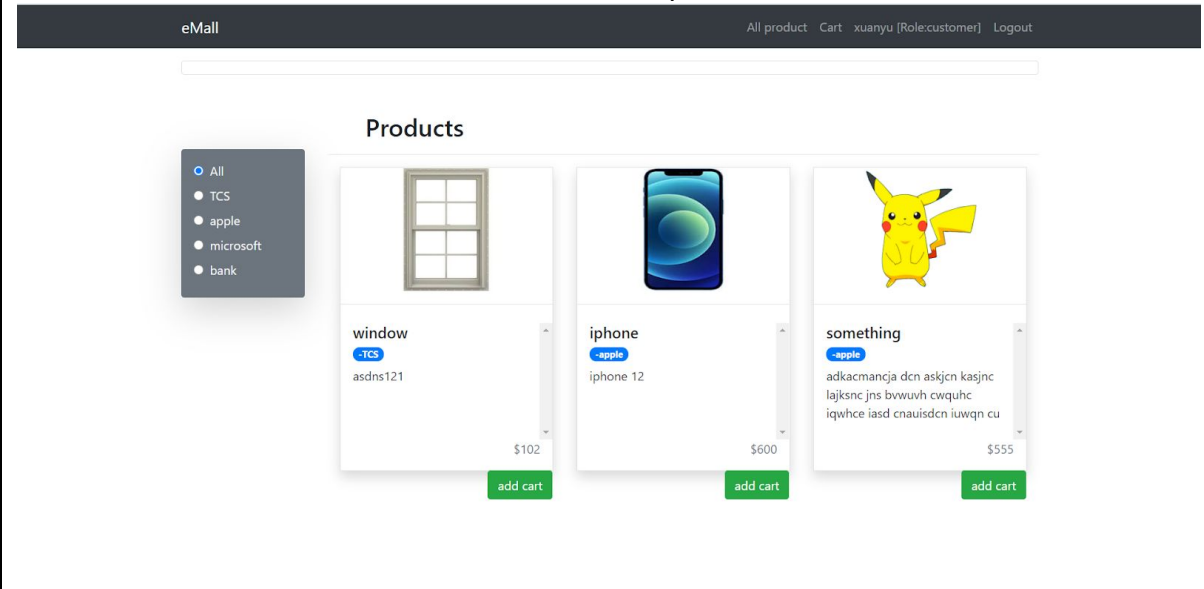
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update success,
pikachu image updated

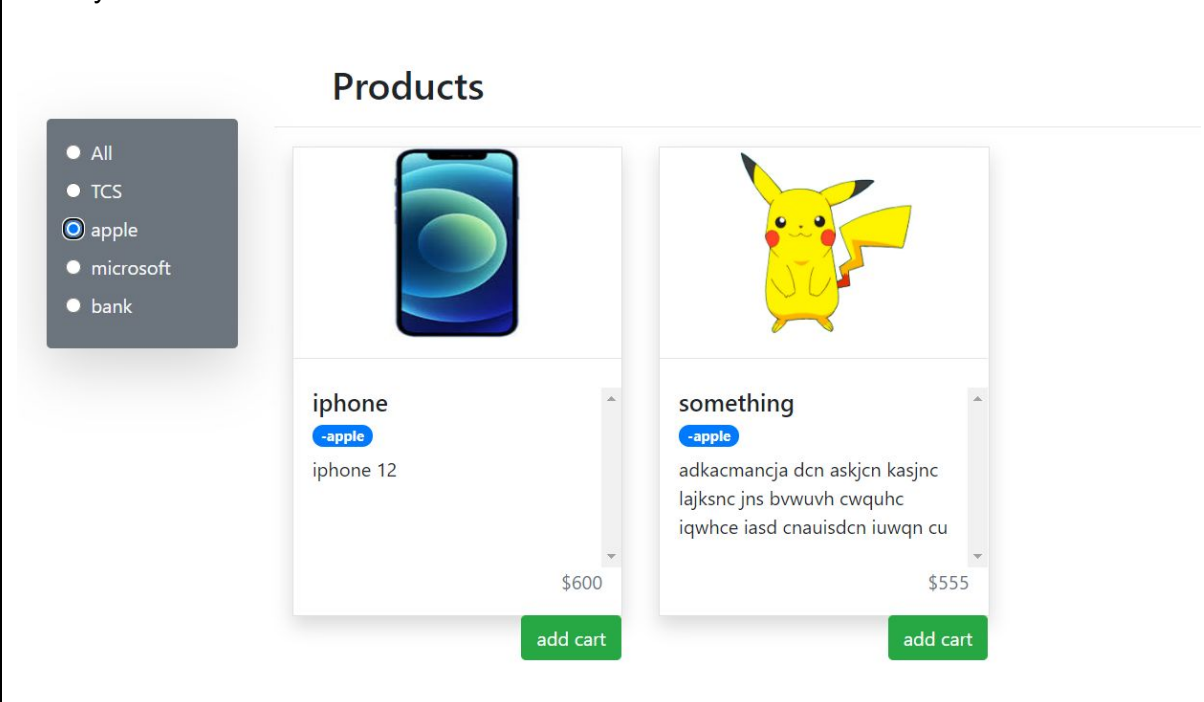
| | | | | | |
|---|-----------|-----------------------------------------------------------------------------------------|-------|--------------------------|-------------------------------------|
| 3 | something | adkacmancja dcn askjcn kasjnc lajksnc jns bvwuvh cwquhlc iqwhce iasd cnauisdcn iuwqn cu | \$555 | 2020-11-17T05:13:45.511Z | <div>Update</div> <div>Delete</div> |
|---|-----------|-----------------------------------------------------------------------------------------|-------|--------------------------|-------------------------------------|

all product view

You can filter view with the radio button on the left panel



filter by brandname



product successfully add to cart with after check on button add cart

eMall

All productCartxuanyu [Role:customer]Logout

Product something add to cart success... Total number of goods: 1

AllTCSapplemicrosoftbank

iphone

apple

iphone 12

\$600

add cart

something

apple

adkacmancja dcn askjcn kasjnc
lajksnc jns bvwuvh cwquhc
iqwhce iasd cnauisden iuwqn cu

\$555

add cart

view cart, user can adjust quantity of product and check out.

eMall

All productCartxuanyu [Role:customer]Logout

Cart Summary

something

apple

adkacmancja dcn askjcn kasjnc
lajksnc jns bvwuvh cwquhc
iqwhce iasd cnauisden iuwqn cu

Qty:

1

\$555

Total: \$555

Check Out

After checkout, it will take the user back to the product page with a message of checkout success.

eMall

All productCartxuanyu [Role:customer]Logout

Check out success! You had spend total of \$600. Thank you

AllTCSapplemicrosoftbank

window

TCS

asdns121

\$102

add cart

iphone

apple

iphone 12

\$600

add cart

something

apple

adkacmancja dcn askjcn kasjnc
lajksnc jns bvwuvh cwquhc
iqwhce iasd cnauisden iuwqn cu

\$555

add cart