

CHAT APP

1. Chat-app folder with 3 folders inside

2. Trong server chạy terminal gõ npm init –yes

3. cài express mongoose cors dotenv cho folder server

Npm I express mongoose cors dotenv

3. install nodemon cho server

Npm i -g nodemon

4. install more packages for server

Npm I bcrypt jsonwebtoken validator

5. Cài vite cho client

npm create vite@latest

Chọn tên folder là .

6. Cài router-dom cho client

Npm I react-router-dom

7. Open main.jsx

Add

```
<BrowserRouter>  
<App />  
</BrowserRouter>
```

8. Install react bootstrap for client folder

Npm I react-bootstrap bootstrap

Import bootstrap

Import “bootstrap/dist/css/bootstrap.min.css”

9. Install google font

10. install moment cho client

Npm I moment

Npm I react-input-emoji

IMPORTS

import {Routes, Route, Navigate} from "react-router-dom";

11. folder socket

Run

Npm init --yes

Run

Npm l socket.io

12. run socket io client cho client

13. import io trong file chatcontext

```
import {io} from "socket.io-client"
```

14. cài body parser

```
npm install body-parser
```

15. cài react toastify

```
$ npm install --save react-toastify
```

Add vào file app.js

```
import {ToastContainer} from "react-toastify";  
import "react-toastify/dist/ReactToastify.css"  
<ToastContainer/>
```

16. Cài redux-persist for client

```
npm i redux-persist
```

17. cài material ui

```
npm install @mui/material @emotion/react @emotion/styled
```

cài material icons

```
npm install @mui/icons-material
```

18. Folder client cài date-fns

```
npm install date-fns --save
```

19. folder client cài emoji picker

```
npm install emoji-picker-react
```

NOTES

Fix lỗi cannot get /

Chạy lại npx nodemon

Run vite

Npx vite

Fix error UnknownReplWriteConcern

Remove anything after db config in .env

Fix error SyntaxError: Cannot use import statement outside a module

Update file package.json

```
"type": "module",
```

Fix lỗi không update document

I've found the answer for anyone who might come across the same problem. It is not at all possible to add a property to a Mongoose collection if it is not already defined in the Schema. So to fix it I added the property in the Schema.

One one relationship mongodb

```
cityId: {  
  type: mongoose.Schema.Types.ObjectId,  
  ref : "City",  
}
```

Add field to collection

```
await userModel.updateMany({}, {$set: {hobbyIds: []}})  
res.status(200).json('Update hobby field thành công')
```

Add field to one document

```
await userModel.updateOne({name: "ss177"}, {$set: {hobbyIds: []}})  
res.status(200).json('Update hobby field thành công')
```

Populate multiple field

```
let user = await userModel.findOne({email: email}).populate(["hobbyIds",  
"cityId"]).exec();
```

Fix lỗi cors multipart form-data

headers

'Content-Type': 'multipart/form-data'

Fix lỗi

Uncaught TypeError: Failed to execute 'createObjectURL' on 'URL': Overload resolution failed.

```
onChange={(e)=>{
  setUserUploadedProfileImage(e.target.files[0]);
}}
```

Get file extension

```
var ext = fileName.split('.').pop();
```

Fix lỗi multer array

Multer không đọc text array

Mongodb set field to empty array

```
await userModel.updateMany({}, {$set: {"gal_images": []}})
```

Remove field

```
await userModel.updateMany({}, {$unset: {"gal_images": ""}})
```

add image to db and mongo

```
const galImagesStorage = multer.diskStorage({
  destination: (res, file, cb)=> {
    cb(null, "assets/images/gal_images")
  },
  filename: async (req, file, cb)=> {
    let {fileName, userId} = req.body
    console.log(userId)
    let name = fileName+Date.now()+path.extname(file.originalname)
    await userModel.updateOne({_id: userId}, {$push: {"galImages": name}})
    // await userModel.updateOne({_id: userId}, {$unset: {"galImage": ""}})

    cb(null, name)
  }
})
```

Slice example

```
import { createAction, createSlice } from "@reduxjs/toolkit";
const initialState = {
  cartItems: [],
  cartTotalQuantity: 0,
  cartTotalAmount: 0,
}
const cartSlice = createSlice({
  name: "cart",
  initialState,
  // reducers: (builder) => {
  //   builder
  //   .addCase(addToCart, (action, state)=>{
  //     state.cartItems.push(action.payload)
  //   })
  //   .addDefaultCase((state, action) => {})
  // }
  reducers: {
    addToCart(state, action) {
      state.cartItems.push(action.payload)
    }
  }
})
export const {addToCart} = cartSlice.actions
export default cartSlice.reducer;
```

Fix lỗi async thunk

Không dung form on submit

Empty array mongo

```
await userModel.updateOne({_id: "659faa8d0ce96138b81b94a8"}, {$set:
{"galImages": []}})
```

return out of function

thừa {

fix lỗi api not a function

```
import { createApi, fetchBaseQuery } from "@reduxjs/toolkit/query/react";
```

fix lỗi children button không nhận click

```
<Button variant={_variant} action-name = {_actionName} onClick =
{_handleConfirm}>
```

(Không được dùng function trong onclick

Selected option

```
return <option key={city._id} value={city._id} selected =  
{city._id == user.datingCity._id} >{city.name}</option>
```

chỉ rerender khi state và prop thay đổi

mongodb exists and not equal to

```
db.inventory.find( { qty: { $exists: true, $nin: [ 5, 15 ] } } )
```

mongo db không thể set field về empty string, chỉ set về null

fix lỗi mongodb find

```
const response = await userModel.find({_id: {$ne:userId}, cityId:  
datingCityId} )
```

populate

```
const response = await userModel.find({_id: {$ne:userId}, cityId:  
datingCityId}).populate(["hobbyIds", "cityId"]).exec()
```

Lỗi add new field

Phải khai báo trong model

Fix lỗi

Mongoose Schema hasn't been registered for model

```
const userModel = mongoose.model("User", userSchema);
```

```
type: mongoose.Schema.Types.ObjectId,  
ref : "User",
```

push to array

```
await userModel.updateOne({_id: userId}, {$push: {likedStrangers: strangerId} })
```

mongodb push multiple array

```
        await userModel.updateOne({_id: strangerId}, {$push: {fans: userId,
noti: newNoti} } )
```

SET UP redux-persist

```
const persistConfig = {
  key: 'root',
  storage,
}
const rootReducer = combineReducers({
  products: productsReducer,
  cart: cartReducer,
  auth: authReducer,
  profile: profileReducer,
  modal: modalReducer,
  home: homeReducer,
  offCanvas: offCanvasReducer,
  [productsApi.reducerPath]: productsApi.reducer,
  [defaultHomeUsersApi.reducerPath]: defaultHomeUsersApi.reducer
})
const persistedReducer = persistReducer(persistConfig, rootReducer)
const store = configureStore({
  reducer: persistedReducer,
  middleware: (getDefaultMiddleware) => {
    return getDefaultMiddleware().concat( defaultHomeUsersApi.middleware,
productsApi.middleware)
  }
})
const persistor = persistStore(store)
store.dispatch(productsFetch())
store.dispatch(getTotals())
store.dispatch(fetchHomeUsers())

ReactDOM.createRoot(document.getElementById('root')).render(
  <React.StrictMode>
    <BrowserRouter>
      <Provider store = {store}>
        <PersistGate loading = {null} persistor={ persistor}>
          <App />
        </PersistGate>
      </Provider>
    </BrowserRouter>
  </React.StrictMode>,
)
```

Bootstrap mr

I recommend to rename .ml-* and .mr-* to .ms-* and .me-*

Mongodb set multiple fields

```
await userModel.updateMany({}, {$set: {fans: [], likedStrangers: [], noti: []}} )
```

fix lỗi socket disconnect => không cho socket vào callback function

```
socket.on("disconnect", ()=> {  
  
    if(onlineUsers.some((element)=>element.socketId == socket.id)){  
  
        onlineUsers = onlineUsers.filter((element)=>element.socketId !== socket.id)  
        let onlineUserNames = []  
        onlineUsers.map((element)=>{  
            onlineUserNames.push(element.user.name)  
        })  
        console.log(onlineUserNames)  
  
    }  
    io.emit("getOnlineUsers", onlineUsers)  
})  
});
```

Fix lỗi server

Async thunk thì phải thunk api not store

Page fit viewport

Index.css

```
body {  
    color: #fff;  
    font-family: "Nunito", sans-serif;  
    background: rgb(40, 40, 40);  
    height: 100vh;  
    width: 100vw;  
}
```

Hide scroll bar


```
*{
  -ms-overflow-style: none;
}
::-webkit-scrollbar {
  display: none;
}
```

Material icon hover

```
<SmsIcon fontSize="medium" sx={{ color:
"red", "&:hover": { color: "green" }}}/>
```

Customize react bootstrap component

Add class và important

```
<Offcanvas show={_appOffCanvasShow} onHide={_handleAppOffCanvasClose}
placement="start" className="dark-offcanvas">
```

```
.dark-offcanvas{
  background-color: #4d4d4d !important;
}
```

Bootstrap margin mr ml migration

- float-right --> float-end
- float-left --> float-start
- ml-* --> ms-*
- pl-* --> ps-*
- mr-* --> me-*
- pr-* --> pe-*

Lỗi mongoose mongo db findOneAndUpdate

Id=> _id

```
const response = await Noti.findOneAndUpdate({_id: notiId}, {$set:
{isRead: true}}, {returnDocument: "after"})
```

populate and sort by date

```
let user = await userModel.findOne({email: email}).populate(["hobbyIds",
"cityId", "likedStrangers", "fans", {
  path: "noti",
  options: {sort: {"createdAt": -1}}
}, "messageNoti", {
  path: "chats",
  populate: {path: "members"}
```

```
])).exec();
```

Find mongodb return array

Intl finite error

```
<div className="ms-3">{lastMessageTime &&  
intlFormatDistance(lastMessageTime, Date.now())}</div>
```

Add field with single object id

```
await userModel.updateMany({}, {$set: {gender: null}})
```

checkbox onchange event

```
onChange={(e)=>{  
  let datingGoalId = parseInt(e.target.getAttribute('data-dating-goal-id'));  
  if(e.target.checked){  
    setCheckedDatingGoalOptions(checkedDatingGoalOptions =>  
    [...checkedDatingGoalOptions, datingGoalId])  
    console.log('added')  
  }else{  
    let options = checkedDatingGoalOptions;  
    let updatedOptions = options.filter((option)=>option !== datingGoalId)  
    setCheckedDatingGoalOptions(updatedOptions)  
    console.log('removed')  
  }  
}
```

Không thể push trong create async thunk

Lỗi redux mutation

Không được push

Fix lỗi create asyn thunk không chạy

Phải có argument cho hàm dispatch

Fix lỗi không check được

Sửa checked => default check

Array compare

```
(userDatingGoalIdCollection.length !== checkedDatingGoalOptions.length  
|| !userDatingGoalIdCollection.sort((a,b)=>{return a-b}).every((element,  
index)=> element == checkedDatingGoalOptions.sort((a,b)=>{return a-b}))[index]))  
&&
```

Dùng use effect để disable button sau khi array về 0

```
useEffect(()=>{
  if(tempHobbies.length ==0){
    dispatch(showOffCanvasDisabledConfirmBtn())
  }else{
    dispatch(showOffCanvasActiveConfirmBtn())
  }
}, [tempHobbies])
```

Fix chunk-OBIMC6IO.js?v=3aa7f793:9145 Uncaught TypeError: Cannot assign to read only property '0' of object '[object Array]'

Không trực tiếp sort redux state

Wrong

```
const tempHobbyIdArray = auth.tempHobbyIdArray
```

Right

```
const tempHobbyIdArray = [...auth.tempHobbyIdArray]
```

rename field mongodb

```
// try{
//   await userModel.updateMany({}, {$rename: {"likedUsers":
"likedStrangers"}})
//   res.status(200).json('Cập nhật dữ liệu thành công')
// }catch(error){
//   console.log(error)
//   res.status(500).json(error)
// }
```

Fix lỗi khi sửa field ở slice làm mất alert

Phải pageoffcanvas ở component

Radio option process

9, write search function in controller, add link in router

10, reset when close offcanvas

```
dispatch(resetTempEduOptId(auth.iniEduOptId))
```