# CS3219 OTOT Task C

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• Repo Link: https://github.com/aidanaden/otot-c

## Tech stack used

- Next.JS (frontend + backend API routes via nextjs' serverless functions)
- TailwindCSS (frontend styling)
- Prisma (database ORM)
- MySQL (database used)
- tRPC (used to set up API routes with end-to-end typesafety)

### Task C: Backend auth

### Requirements

- 1. MySQL (SQL database used)
- 2. NodeJS >= v14.19.2
- 3. Postman is used to (manually) test CRUD for the API.

# **Local Deployment**

- 1. Install docker by clicking here
- 2. Install pnpm by clicking here
- 3. Copy the .env-example file to .env and paste the following:

```
# Prisma
DATABASE_URL=mysql://root:root@localhost:3369/mysqldb

# Next Auth
NEXTAUTH_SECRET=secret

# Calendarific
CALENDARIFIC_API_KEY=00e9be3d9730c3d5504e5c4794788bc428cdeea5
```

4. Run the following commands to deploy the app locally

```
# install packages
pnpm install

# start local mysql db, deploy schema, build source files
pnpm build:local

# run locally
pnpm start
```

### Verify successful deployment

Run the following commands to verify successful local deployment

```
# query the /api/activity endpoint
curl http://localhost:3000/api/activity

# expected output
[]
```

Visit http://localhost:3000 to confirm successful frontend deployment

### **Testing via Postman**

Import the Postman collection via this link.

Explanation of HTTP requests:

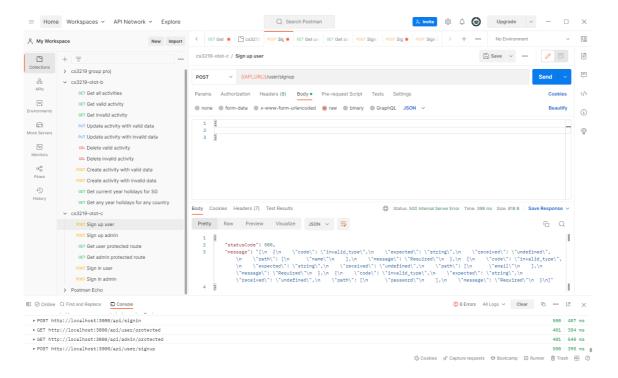
- signin: sign in with username and password (public route)
- user/signup : sign up with a user account (public route)
- user/protected : get user data of logged in user account (user protected route)
- admin/signup: sign up with an admin account (public route)
- admin/protected: get user data of logged in admin account (admin protected route)

#### Note:

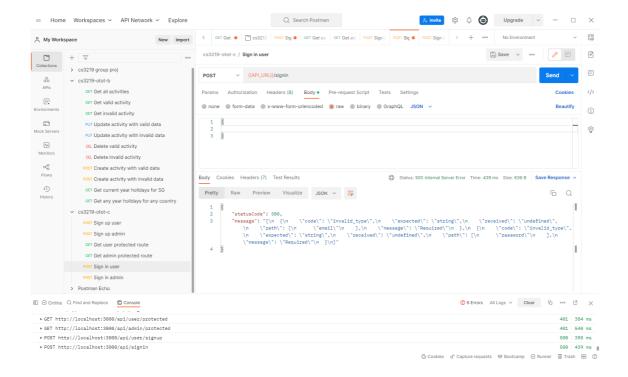
· params and body would need to be updated manually, where they are necessary.

#### **Public role screenshots**

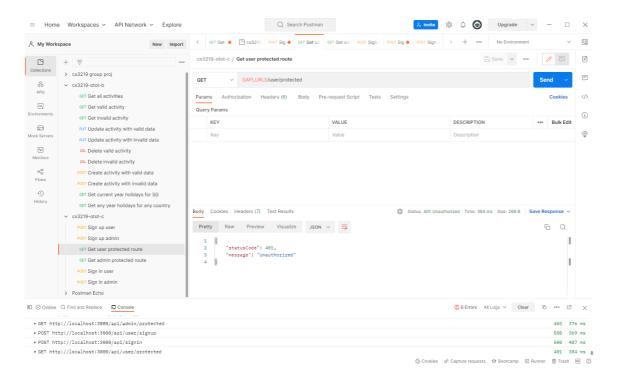
### Sign up as user with invalid credentials



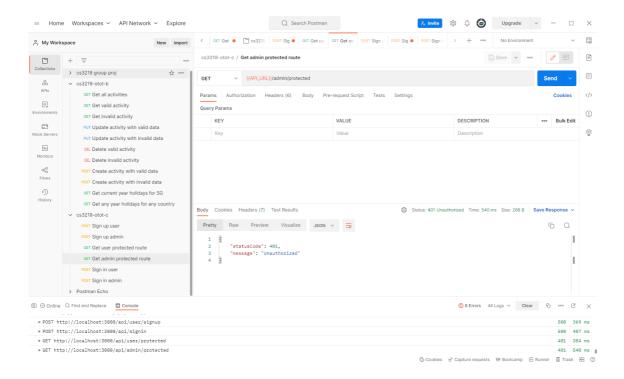
Sign in as user with invalid credentials



#### Test user protected route failure

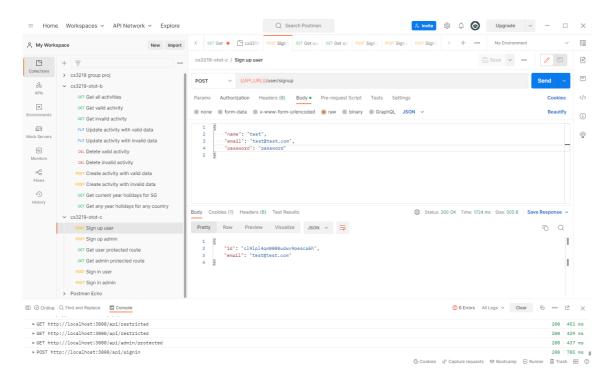


Test admin protected route failure

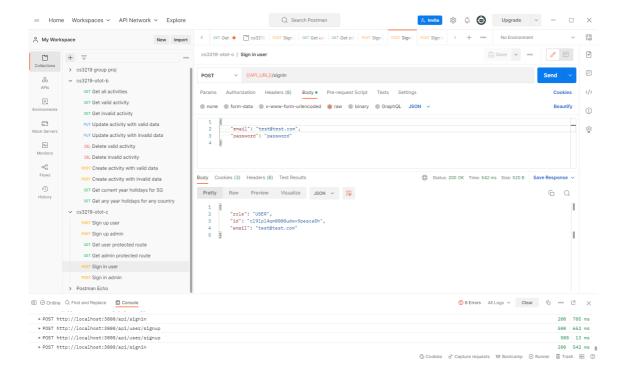


### **User role screenshots**

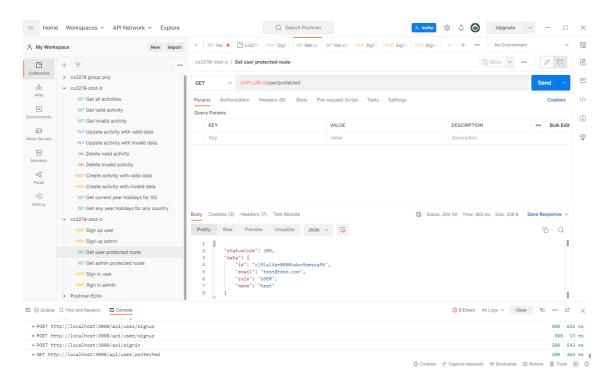
#### Sign up as user with valid credentials



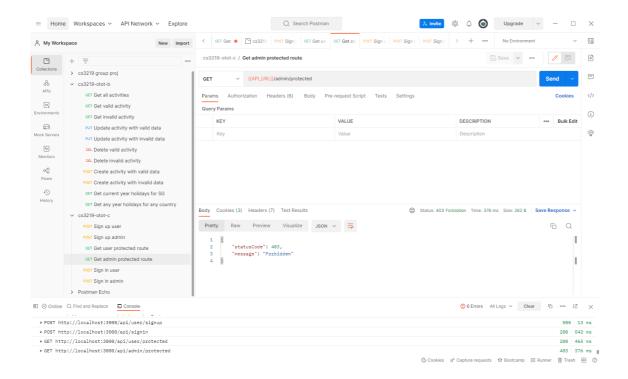
Sign in as user with valid credentials



#### Test user protected route success

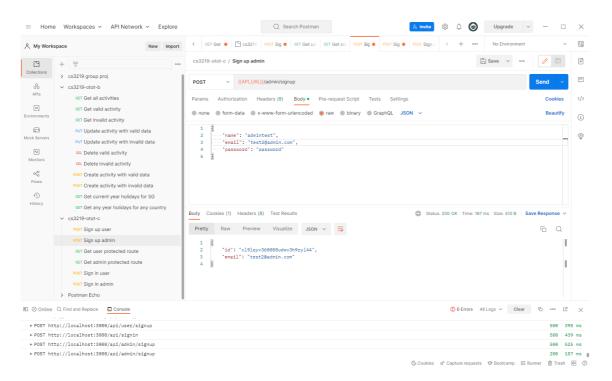


Test admin protected route failure

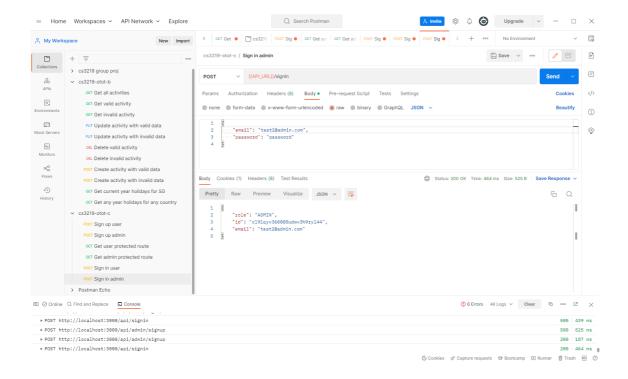


### **Admin role screenshots**

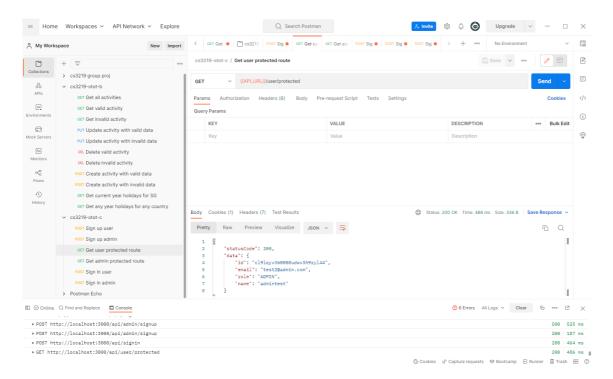
### Sign up as admin with valid credentials



Sign in as admin with valid credentials



#### Test user protected route success



Test admin protected route success

