

https://1.101.fr

Follow the instruction at https://github.com/huguesbr/ufr-blois-development-web-messenger.git

Seed

Seeding allow to some data to a database

bin/rake db:seed

Similarly you can create some data from the console

bin/rails console Message.create(chat_id: 1, user_id: 1, text: "Hello")

Current User

The App DOES NOT have a login for now, then for does NOT have a notion of a current user.

In this TD, we will pretend to have a current user by passing a *user_id=1* query params2 ie.: /chats?user_id=1

• In order to have an easy access to the current user from anywhere let's add it to the ApplicationController

```
# app/controllers/application_controller.rb
class ApplicationController < ActionController::API
def current_user_id
    params[:user_id]&.to_i
end
end
```

Unauthorized

To return a 401 *render nothing: true, status: 401*Example, to return an (inconditional) 401 when someone try to fetch all users *GET / users*

```
# app/controllers/user_controller.rb
class UsersController < ApplicationController
before_action :set_user, only: [:show, :update, :destroy]

# GET /users
def index
render nothing: true, status: 401
end

# ...
end</pre>
```

Limit user's actions

- anyone can create a new user
 - POST /users -> 201
- any users can list all users
 - *GET /users* -> 200
- any users can fetch a specific users
 - GET/users/1 -> 200
- a user can only update itself
 - PUT/users/1?user_id=1 -> 200
 - PUT/users/1?user_id=2 -> 401
- a user can only delete itself
 - DELETE /users/1?user_id=1 -> 204
 - DELETE /users/1?user_id=2 -> 401

Limit chat's actions

- any users can create a new chat (but we need a user)
 - POST/chats?user_id=1 -> 201
 - POST/chats -> 401
- any users can list all chats (but we need a user)
 - *GET/chats?user id=1 -> 200*
 - GET /chats -> 401
- any users can fetch a specific chat (but we need a user)
 - GET/chats/1?user_id=1 -> 200
 - GET/chats/1 -> 401
- assuming chat 1 has been created by user 2
 - only the owner (*chat.user_id*) can update the chat
 - PUT/chats/1?user_id=2 -> 204
 - PUT/users/1?user_id=1 -> 401
 - only the owner (*chat.user_id*) can delete the chat
 - DELETE /chats/1?user_id=2 -> 204
 - DELETE /users/1?user_id=1 -> 401

Limit message's actions

In order to limit message actions, we need to introduce a new class *Membership*. This class will hold the chat's membership, but will for now be populated manually (without any restriction)

create a membership table

bin/rails generate scaffold Membership chat:references user:references bin/rake db:migrate

create some memberships (via the console)

bin/rails console Membership.create(chat_id: 1, user_id: 1)

Enforce Membership

find a membership **membership = Membership.find_by(chat_id: 123, user_id: 456)**

- any users can create a membership
- POST/chats?user_id=1 -> 201
- POST/chats -> 401
- assuming user 1 is a the owner of a chat 1
- assuming user 2 is a member of a chat 1
- assuming user 3 is NOT a member of a chat 1
- only members (or owner) of a chat can fetch the chat's message
- GET /chats/1/messsages?user_id=1 -> 201
- GET /chats/1/messsages?user_id=2 -> 201
- GET/chats/1/messsages?user_id=3 -> 401
- assuming user 2 is the creator of message 3
- only the message's user can update a message
- UPDATE /chats/1/messsages/3?user_id=2 -> 201
- UPDATE /chats/1/messsages/3?user_id=1 -> 401
- only the message's user can delete a message
- DELETE /chats/1/messsages/3?user_id=2 -> 204
- DELETE /chats/1/messsages/3?user_id=1 -> 401

Add a Chat membership status

add a status field (string) to membership

- add a field to a table bin/rails generate migration
 AddFieldnameToTablename fieldname:type (type: string)
- migrate the table bin/rake db:migrate

a new membership should be created as **pending** allow the owner of a chat to update a membership status (-> **accepted**)

only allow user with an accepted membership to access chat's message