Documentation for routes/auth.py

This module contains the endpoints for the authentication service. It provides routes for user registration, login, and logout and other related operations.

```
delete_user(user_id,
current_user=Depends(login_manager),
db=Depends(get_db))
```

Delete a user by their user ID.

- user_id: int The ID of the user to delete.
- current_user: User The current authenticated user attempting the deletion.
- db: Session The database session dependency.
- return: Returns a dictionary with a detail message on successful deletion.

```
77 Source code in routes/auth.py
      @router.delete("/users/{user_id}", tags=["users"], response_model=dict)
  87
  88
      def delete_user(
  89
           user_id: int, current_user=Depends(login_manager), db: Session =
  90
      Depends(get_db)
  91
  92
  93
          Delete a user by their user ID.
  94
  95
           - **user_id**: int - The ID of the user to delete.
  96
           - **current_user**: User - The current authenticated user attempting
  97
  98
           - **db**: Session - The database session dependency.
           - **return**: Returns a dictionary with a detail message on successful
 100
      deletion.
 101
          if not current_user:
 102
 103
              raise InvalidCredentialsException(detail="Invalid credentials")
 104
          if current_user.id != 1:
              raise HTTPException(status_code=401, detail="Unauthorized")
 105
 106
           user = db.query(User).filter(User.id == user_id).first()
 107
           if not user:
 108
               raise HTTPException(status_code=404, detail="User not found")
           db.delete(user)
           db.commit()
           return {"detail": "User deleted"}
```

index()

Render a front-end GUI for testing signup/login functionality.

• return: Returns an HTMLResponse containing the content of the index.html page.

```
5.5 Source code in routes/auth.py
 53
     @router.get("/gui", tags=["auth gui"], response_class=HTMLResponse)
      def index():
 55
 56
          Render a front-end GUI for testing signup/login functionality.
 57
 58
          - **return**: Returns an HTMLResponse containing the content of the
 59
    index.html page.
 60
          file_path = os.path.join("gui", "templates", "index.html")
 61
          with open(file_path, "r") as f:
 62
              return HTMLResponse(content=f.read())
```

```
list_users(user=Depends(login_manager),
db=Depends(get_db))
```

List all users.

- **user**: User The current authenticated user (unused in this function).
- **db**: Session The database session dependency.
- return: Returns a list of dictionaries, each representing a user with their id and email.

```
57 Source code in routes/auth.py
       @router.get("/users", tags=["users"], response_model=list)
 122
 123
       def list_users(user=Depends(login_manager), db: Session =
 124
       Depends(get_db)):
 125
 126
           List all users.
 127
           - **user**: User - The current authenticated user (unused in this
 128
 129
      function).
 130
           - **db**: Session - The database session dependency.
           - **return**: Returns a list of dictionaries, each representing a user
 131
      with their id and email.
 132
 133
           users = db.query(User).all()
           users = [{"id": user.id, "email": user.email} for user in users]
           return users
```

login(data=Depends())

Authenticate a user and return an access token.

- data: OAuth2PasswordRequestForm A form data model including username (email) and password.
- return: Returns a TokenData object containing the access token and token type.

```
Source code in routes/auth.py
65
     @router.post("/token", tags=["users"], response_model=TokenData)
     def login(data: OAuth2PasswordRequestForm = Depends()):
66
67
68
         Authenticate a user and return an access token.
69
         - **data**: OAuth2PasswordRequestForm - A form data model including
70
71
     username (email) and password.
72
        - **return**: Returns a TokenData object containing the access token
73
     and token type.
74
75
         email = data.username
76
         password = data.password
77
         user = get_user(email)
78
         if not user or not bcrypt.checkpw(
             password.encode("utf-8"), user.hashed_password.encode("utf-8")
79
80
81
             raise InvalidCredentialsException
82
         access_token_expires =
83
     {\tt timedelta(minutes=DEFAULT\_SETTINGS.access\_token\_expire\_minutes)}
84
         access_token = login_manager.create_access_token(
             data=dict(sub=email), expires=access_token_expires
         return {"access_token": access_token, "token_type": "bearer"}
```

private_route(user=Depends(login_manager))

A private route that requires authentication.

- user: User The current authenticated user.
- return: Returns a dictionary with a welcome message for the authenticated user.

```
5.5 Source code in routes/auth.py
 111
       @router.get("/private", tags=["users"], summary="A private route that
       requires authentication.", response_model=dict)
 112
 113
      def private_route(user=Depends(login_manager)):
 114
           A private route that requires authentication.
 115
 116
           - **user**: User - The current authenticated user.
 117
           - **return**: Returns a dictionary with a welcome message for the
 118
 119 authenticated user.
           return {"detail": f"Welcome {user.email}, you are authenticated"}
```

read_users_me(user=Depends(login_manager)) async

Get the current authenticated user.

- user: User The current authenticated user from the session.
- return: Returns the user object of the currently authenticated user.

```
39 Source code in routes/auth.py
     @router.get("/users/me", tags=["users"])
 22
      async def read_users_me(user: User = Depends(login_manager)):
 23
 24
          Get the current authenticated user.
 25
 26
          - **user**: User - The current authenticated user from the session.
 27
         - **return**: Returns the user object of the currently authenticated
 28
     user.
 29
          return user
```

register(user, db=Depends(get_db))

Register a new user with the provided email and password.

- user: UserCreate A user creation object containing the email and password.
- db: Session The database session dependency.
- return: Returns a dictionary with a detail message on successful registration.

50 Source code in routes/auth.py @router.post("/register", tags=["users"], response_model=dict) 32 def register(user: UserCreate, db: Session = Depends(get_db)): 33 34 Register a new user with the provided email and password. 35 36 37 - **user**: UserCreate - A user creation object containing the email 38 and password. 39 - **db**: Session - The database session dependency. - **return**: Returns a dictionary with a detail message on successful 40 41 registration. 42 db_user = get_user(user.email) 43 if db_user: 44 45 raise HTTPException(status_code=400, detail="A user with this email already exists" 46 47 hashed_password = hash_password(user.password) 48 db_user = User(email=user.email, hashed_password=hashed_password) 49 50 db.add(db_user) db.commit() return {"detail": "Successfully registered"}