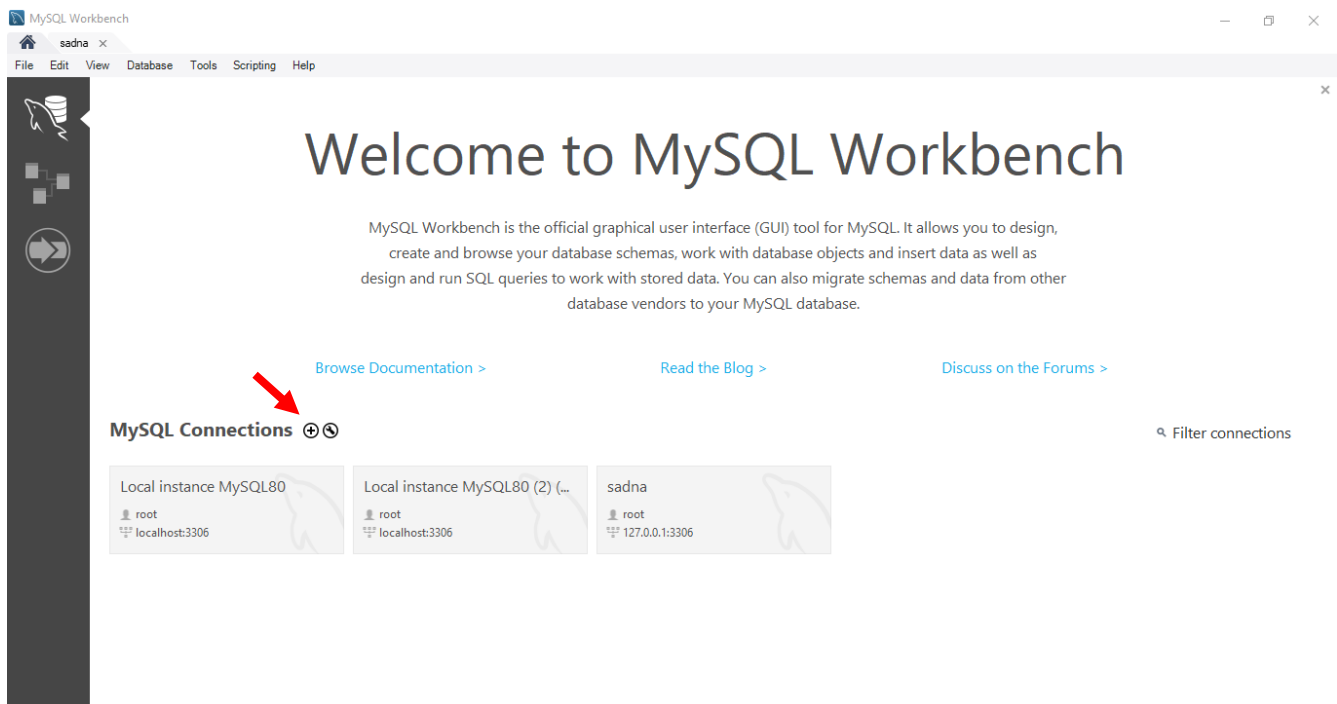


myHungryFriends setup

Running the myHungryFriends project on your localhost:

Note: We developed our project on the Windows OS, for other OS the MySQL download might be slightly different.

1. Clone the git repository into a directory at your local machine
2. Connecting the database:
 - a. If MySQL not downloaded yet:
 - i. Download from here: <https://www.mysql.com/downloads/> - according to your OS
 - ii. Navigate to MySQL and create a user and password. User is by default 'root' which is what we use, password can be unique.
 - b. Navigate to the MySQL Workbench and create a new connection in MySQL:



Use your username (its recommended to use the default username 'root') and insert the connection name as 'myHungryFriends'.

User the local hostname 127.0.0.1 and port 3306, which should be available as default.

Setup New Connection

Connection Name: Type a name for the connection

Connection Method: Method to use to connect to the RDBMS

Parameters SSL Advanced

Hostname: Port: Name or IP address of the server host - and TCP/IP port.

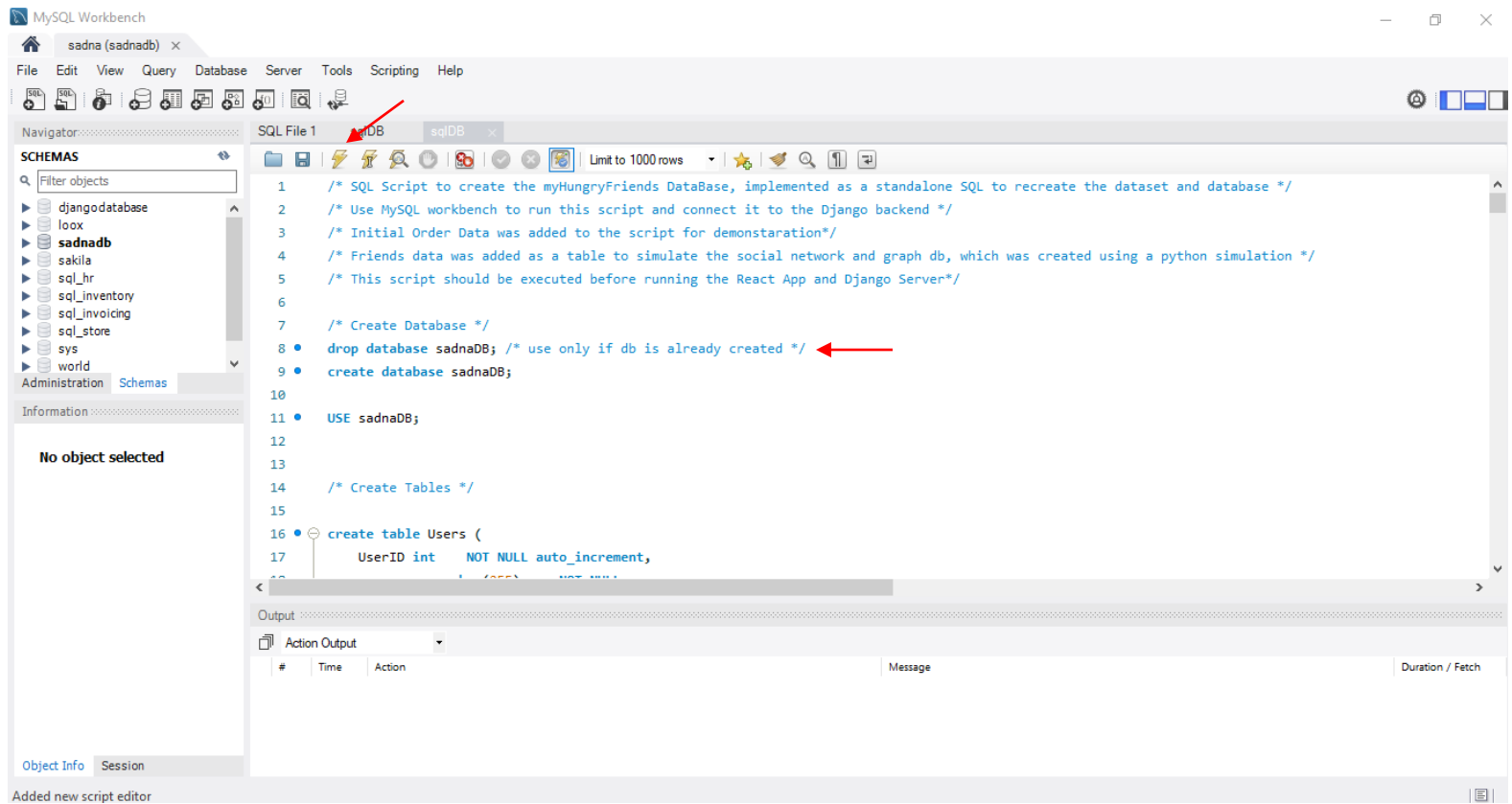
Username: Name of the user to connect with.

Password: The user's password. Will be requested later if it's not set.

Default Schema: The schema to use as default schema. Leave blank to select it later.

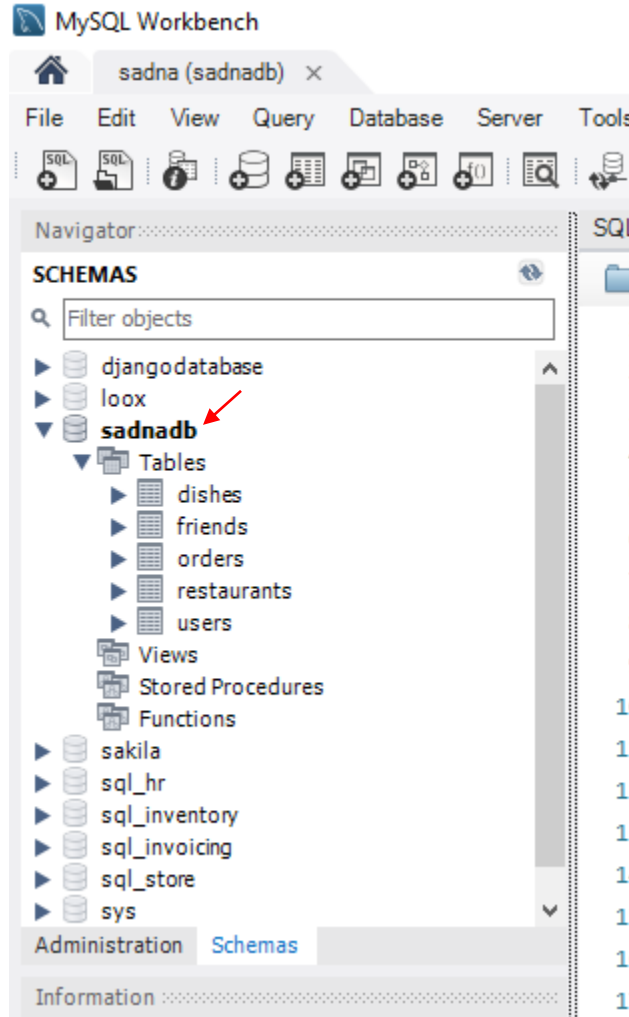
- c. Double click the new 'myHungryFriends' connection. You might be needed to enter a password. If there is an 'unconnected' banner, there is a problem with the MySQL settings – you should make sure its running from your program files.
- d. Load the 'sqlDB.sql' script to the workbench:
 - i. File -> Open SQL Script -> ./django-todo-react/backend/sqlDB.sql

- e. Run the sql script to create the database and upload the initial data. The execution would only work if there isn't a problem with the connection from the previous sections.
- i. Important Note! If this is the first use – Put line 8 in comment. For next uses, put it out of the comment.



- f. We created a demo dataset including 30 users, 6 restaurants with 4 dishes each and 100 random generated orders which are created using this script. Also, the friend's social network is added into this db after the random graph generation – it can also be found in the project under friends_data.json

f. Once executed, you should see the full database tables in the schemas navigator



3. Backend requirements:

- a. In the backend directory of our project – Navigate to the settings.py and in line 21, change the global variable PASS to your MySQL password. This is required to connect the database to the Django app.
 - i. `./django-todo-react/backend/backend/settings.py`

The screenshot shows a code editor with the following content in the settings.py file:

```
10 https://docs.djangoproject.com/en/4.0/ref/settings/
11 """
12
13 import ...
14
15 pymysql.install_as_MySQLdb()
16
17
18
19 # Build paths inside the project like this: BASE_DIR / 'subdir'.
20 BASE_DIR = Path(__file__).resolve().parent.parent
21 PASS = "abcdABCD1234!@# $" # TODO -> change to your own password
22
23 # Quick-start development settings - unsuitable for production
24 # See https://docs.djangoproject.com/en/4.0/howto/deployment/checklist/
25
```

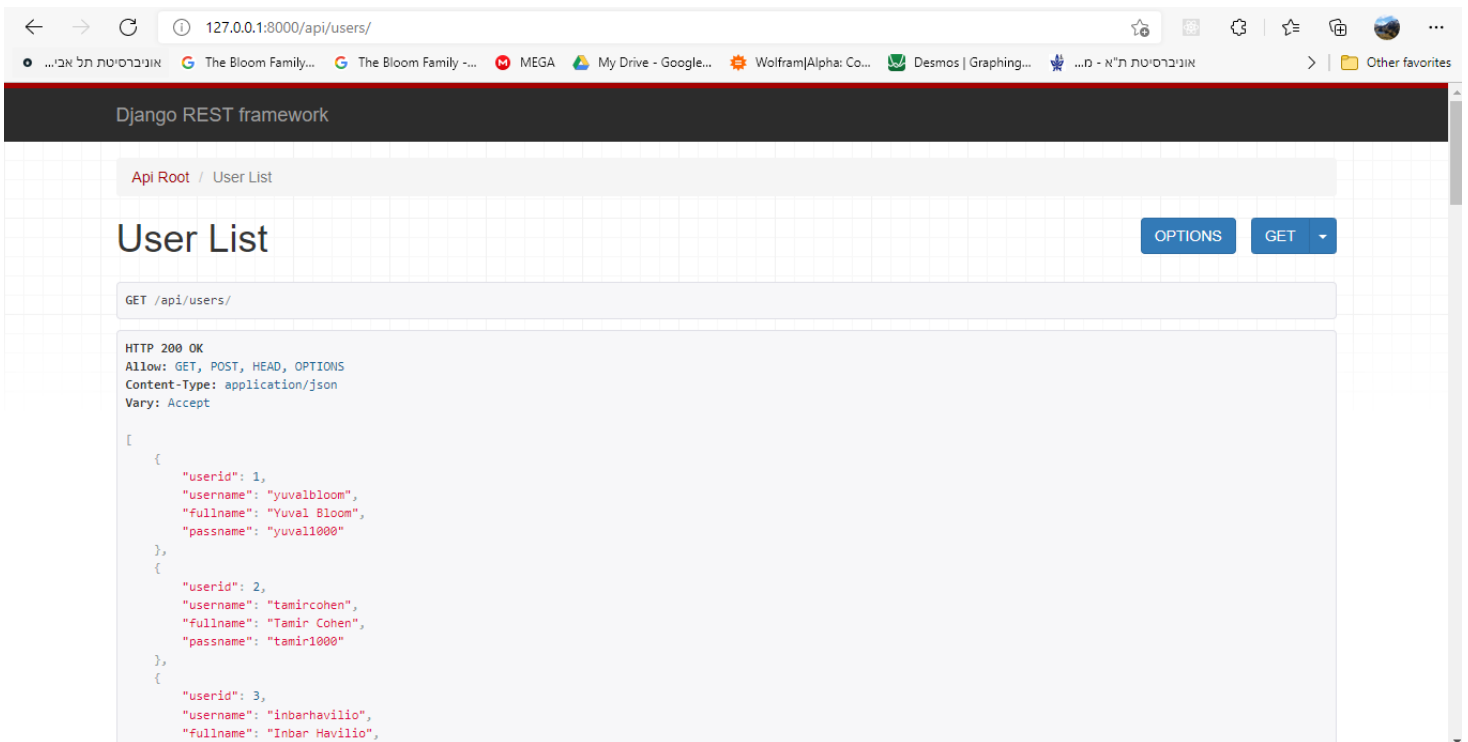
A red arrow points to line 21, where the password is assigned.

- b. Creating a virtual environment:
 - i. Open a local terminal and cd into the project directory.
 - ii. Run pipenv shell – this should create a virtual environment for the project.
 - iii. The Pipfile and Pipfile.lock are updated to the project’s requirements – but if there is a problem pip install the following modules:
 1. pip install django
 2. pip install djangoRESTframework
 3. pip install django-cors-headers
 4. pip install pymysql
 5. pip install mysqlclient
4. The server and DB should be set now. If there are any errors on connections (which might occur due to several reasons) – there will be an error in the api. To check this:
 - a. Navigate to ./django-todo-react/backend
 - b. Run pipenv shell to enter the virtual environment
 - c. Run python manage.py runserver
 - i. If there is a cryptography error – check the MySQL password in settings from the previous steps
 - ii. If there is an undefined model error, run the following:
 1. python manage.py makemigrations
 2. python manage.py migrate
 - iii. If the problem still occurs (this is a very rare case scenario), run the following:
 1. python manage.py inspectdb > models.py
 - a. This overwrites the models page with the db. Do this step only if the model is undefined (and it shouldn’t be this way)
 2. python manage.py makemigrations
 3. python manage.py migrate
 - iv. If manage.py is undefined – check that you are in the correct directory

- d. The following message should be shown in the terminal if this succeeded:

```
Run 'python manage.py migrate' to apply them.
January 06, 2022 - 10:11:44
Django version 4.0, using settings 'backend.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

- e. Open a web browser and enter the development server at <http://127.0.0.1:8000>. It's OK if there is an undefined error message.
- f. To see that the API is successful, navigate to:
127.0.0.1:8000/api/users/
A list of all the users in json format should be seen – similar to the DB table created in MySQL for the users. You can check the same for other tables such as [/api/orders/](http://127.0.0.1:8000/api/orders/) , [/api/restaurants/](http://127.0.0.1:8000/api/restaurants/) , [/api/dishes/](http://127.0.0.1:8000/api/dishes/) and more.



- g. Keep the terminal running while using the project for the server.

5. Connecting the frontend:
 - a. Open a new terminal and run pipenv shell to enter the virtual environment
 - b. Navigate to the frontend app
./django-todo-react/frontend/
 - c. Run npm install – this should install the node modules from the project to the virtual environment
 - d. Inside the virtual environment and the frontend directory, run npm start. This should start the React project.
 - e. The React app should be opened in the following 3000 port on local host – and not on 8000 as the server.
6. You should now be able to see the Login screen and use the app

MY
HUNGRY
FRIENDS

SIGN-IN

Sign In

Username

Password

Submit