Workshop: Todo’s App

For this workshop, you will be provided with a client app. You should only implement the required APIs.

1. Part I – Authentication

Creating the Auth app

Create a **todos_auth** app that handles the authentication

Views

Implement session authentication using Django **REST Framework**:

For this part, we will use the default user model, provided in Django.

We need to implement the Login/Register/Logout views.

- RegisterView implements CreateAPIView
- LoginView implements APIView and has a custom **post** to log in the user
- LogoutView implements APIView and has a custom **post** to log out the user

RegisterView and LoginView should be public

LogoutView should be private

URLS

Add the following urls:

- **`'localhost:8000/api/auth/register/'`** – registers a user
- **`'localhost:8000/api/auth/login/'`** – logs in a user
- **`'localhost:8000/api/auth/logout/'`** - logs out a user

2. Part II – Todos

Creating the Todos app

Create a new **app** called **`'todos'`** that handles the logic for todos

Models

Create the following models:

Category

- Name - maximum 15 characters

Todo

- Title - maximum 30 characters
- Description - any text, with no limit of words/chars
- Category – a relation to category
- State – can be either “Done” or “Not done”

URLs

Add the following **urls**:

- **`POST 'localhost:8000/api/todos/'`** – creates a todo for a logged-in user
- **`GET 'localhost:8000/api/todos/'`** – returns the todos for the logged-in user
  - `Additional query parameters can be provided to further filter the result:`
    - `category` - only todos to a category
    - `is_done` - True/False
  - **`GET 'localhost:8000/api/todos/?category={CATEGORY_NAME}'`**
  - **`GET 'localhost:8000/api/todos/?is_done={True/False}'`**
  - **`GET 'localhost:8000/api/todos/?is_done={True/False}& category={CATEGORY_NAME}'`**Modifying Models

Additional

- Try to add Profile for each user. A profile should have first and last names
- Try to add `assignees` to each todo, i.e. a user can assign a todo to another user