

# Lab 11

## TODO

In this laboratory work you have to show knowledge about:

1. Django (Back-End): basic configurations; creating new app; creating models and relations between them; simple API
2. Angular (Front-End): sending data between components; services; promise

### Back-End

Create django project with name “**todo-back**”

1. Project contains application with name - **api**
2. You have two models with following fields:
  - a. **TaskList**
    - i. name - CharField
  - b. **Task**
    - i. name - CharField
    - ii. [created\\_at](#) - DateTimeField
    - iii. [due\\_on](#) - DateTimeField
    - iv. [status](#) - CharField
    - v. task\_list (fk) - ForeignKey
3. Write API endpoints with JSON format:
  - a. /api/task\_lists - List of all **TaskList**
  - b. /api/task\_lists/1/ - Get one **TaskList**
  - c. /api/task\_lists/1/tasks/ - List of all **Tasks** for TaskList with **id=1** (json object should contain only id, name and status)
  - d. /api/tasks/2/ - Get one **Task** (json object should contain all fields of Task model)

### Front-End

Create angular project with name “**todo-front**”

1. Create component for rendering data with name - **main**
2. Create necessary **interfaces**: **TaskList**, **Task**
3. Create necessary **services** for getting data from back-end
4. Show list of **TaskList**
5. When you click to one task\_list it must show tasks of current selected item.
6. When you click to one task it must show detailed info about current selected task.
7. Add little bit **css/scss** to give some style for your project