

## Project Task: TODO -List Manager

### Abstract

The goal of this small project is to create yet another TODO List Web Application. With this application, users can view their TODO list, add new TODO, mark TODO as done and delete TODOs.

### Challenge

The challenge is to create both the server- and the client side application of this application. You are free in the choice of your technologies, on the server side Java is the preferred implementation language but other languages may be used as well. The frontend should be implemented as a web application. If possible, the frontend application should be implemented as a single page application.

### Requirements

The following functionalities should be implemented:

- A backend which can persist TODOs in some persistent data storage (e.g. a database)
- A REST or Websocket interface providing CRUD functionality for the frontend to access the TODOs
- A client implementing the following functionalities:
  - o List all TODOs
  - o Create a new TODO
  - o Edit an existing TODO
  - o Mark a TODO as done
  - o Deleting a TODO
- These changes should be synchronized with the server

### Bonus Points:

The following will earn bonus points:

- User Authentication and Signup Workflow: Multiple users can use the TODO List Application
- Beautiful User Interfaces

### Presentation

Please prepare a demo/presentation of your implementation. This implementation will be discussed during the interview. Please consider the following points:

- Technology overview and reasoning behind choosing those technologies
- Data model
- Architecture backend
- Architecture frontend
- Possible deployment scenarios

Any questions? Max will help you -> Phone: +49 152 54561586 or Mail: m.dorr@celonis.com