Engineering Challenge - Frontend Engineer

Technologies to use

- Angular - 4+
- Docker

Goal

Implement a simple frontend application using the technologies listed above by using a provided docker image as backend.

The application simulates a simple Task Management System. Incoming tasks are pushed to a queue for further processing. In addition, tasks can be postponed with a "remind me at" date for later.

Challenge

The frontend application should implement the following features:

- Load the tasks from the backend asynchronously and list them according to their dueDate and the priority
- If new tasks come in, they should automatically be added to the list of tasks without any manual refresh of the page
- The home view should list a paginated table showing Title, Description, Status, dueDate and priority only
- If the status equates to NEW, a button to Postpone the task should also be provided in the home view
- If the status equates to RESOLVED, the button to resolve the task should not be shown
- A task can be postponed, so that it
    - is removed from the list
    - appears on the list at a later time again
- Each task has a detailed view, where all information of the task can be edited and saved

The solution must be compliant with the following requirements:

- have "some" unit tests. Overall high code coverage is not important, just have tests for one application functionality.
- it must be responsive and usable on laptops, tablets and mobile phones.
- the code must be served compressed and it must be structured in a modular way
- it must be written in ECMAScript 6 but at the same time, be compatible with Internet Explorer 11

The backend

The Docker image can be downloaded from docker hub. The image is running 2 java processes and PostgreSQL so it takes a while to start (~1 minute).

The source code and its documentation is here. Please note that a very simple and pretty hacked web UI has been provided in the code, but don't take it as an example.

- If something is not clear about the architecture and purpose of the software please open an issue and assign the label *question*
- If you find a bug that blocks your work please open an issue and assign the label *bug*
- You'll need to proxy to the backend, if you are using ng cli checkout the angular documentation.

The API you have to use has no documentation. Have a look to its related spring-boot controller class.

Setup & Deliveries

- The source code should be located in a git repo and accessible for us (don't fork the backend source code, just create a new one)
- The repo readme must indicate a concise method to build and run the frontend, while having the backend running on the same host
- Feel free to add any required dependencies