Full-Stack Developer – Web-based tool to inform users about ongoing retrofits for intralogistics systems

Initial Situation

Intralogistics systems should be used as long as possible, in order to ensure an economic operation. In addition to the usual maintenance activities, modernizations (retrofitting) are possibilities to increase lifecycle of such machines.

Clients (operators) as well as implementers of retrofits face several challenges. On the one hand, retrofits are very individual due to the diversity of logistics systems, on the other hand, the level of knowledge among operators regarding modernization is varies widely. The associated research project Optifit aims to optimize the current retrofit process (especially the offering phase) of intralogistics systems.

IDP information and user story

The goal of the IDP is to develop a web-based platform for two types of users (implementers - A, operators – B). The platform includes technical information such as for components (f.e. failure risk, component status…), required retrofitting measures etc. These details are accessible from a database that is yet to be implemented. A is able to edit the predefined information according to the individual technical system of B to provide customer specific details of the future retrofit. By accessing the platform, B is able to receive information from A about his own technical system, technical relations between components and expected measures. Depending on the affected components, an overview of proposed retrofit measures and upcoming work of scope.

What you can expect

- Conceptual design and development of a full-stack web application (Greenfield)
- Free choice of frameworks and programming (f.e. Angular / ReactJS / VueJS with Spring-Boot / NodeJS)
- Development of own solution proposals
- Support by motivated supervisor
- Insights into the after-sales process management of mechanical engineering companies

Your profile

- Enrolled at least until 31st of March 2021
- Ideally experience in full-stack development
- Knowledge in at least one of the following: JavaScript / TypeScript, Java / Kotlin or Python
- Ideally knowledge in modern version control system (f.e. Git)
- Logical thinking, high organizational competence
- High degree of independence, reliability and very structured way of working
- Proficient in English and/or German

If you are interested in this IDP, send a short motivation letter, transcript and CV to

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