Development of an information system to display machine performance

Initial situation
At the chair fml, the digitization of the construction site is also investigated in the field of construction logistics. A decisive factor is also the consideration of the performance calculation of machines. For this purpose, a master database already exists, which is to be extended by parameters for performance calculation.

Objective
In the context of the student research project, the existing database application based on MySQL is to be examined and prepared. This is embedded in a virtual web server (Apache Tomcat). The frontend (data input and visualization) is based on Java or Javascript. The functions of this initial model are to be retained and supplemented. This may require a new implementation of the application. AI-based text recognition to automatically import new machine data sheets as well as a possibility to check the machine performance per project are part of the extension. Furthermore, an interface to an existing middleware should be established.

Requirements
• Reliability and commitment
• Independent and structured way of working
• Open and communicative manner

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