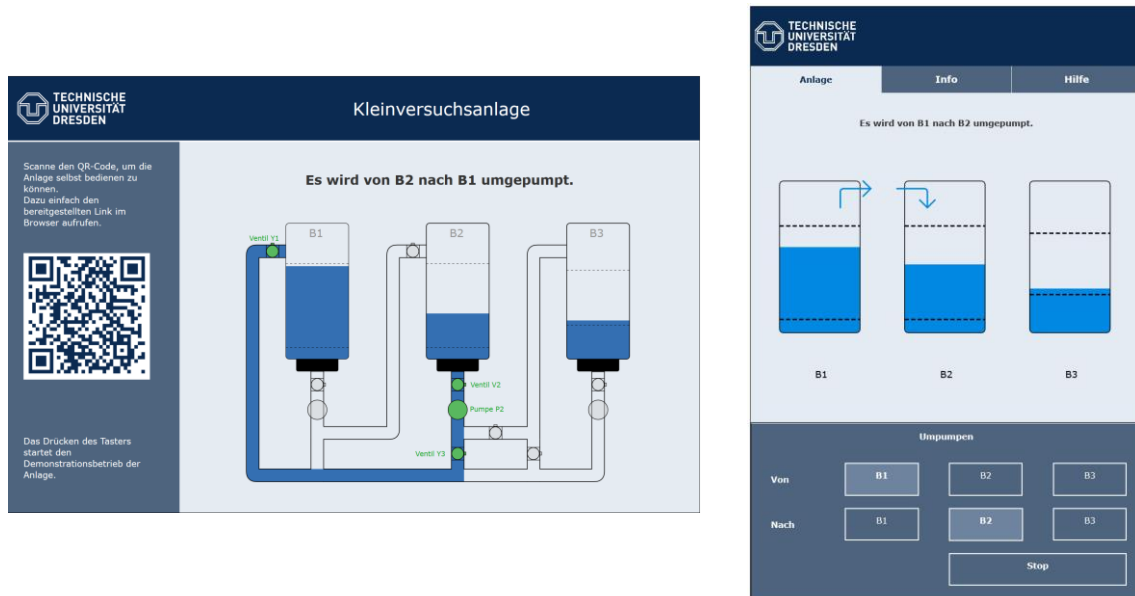




Design of a mobile process visualization for demonstration purposes

There is a small process plant present at the Institute of Automation of the Dresden Technical University. It is used for demonstration of procedures typical for the process industry such as intertank transfer. The testing facility can be observed through the glass door of the room it is located in.



The result of this paper is the implementation of a mobile process visualization of this plant.

The visualization is displayed by a tablet installed near the facility. In addition to that, users are able to operate the testing plant using a mobile website on their own smartphones. In order to maintain the facility's operability, users' rights for operation are restricted to its immediate surroundings.

Current methods for positioning were evaluated in order to gain a concept for the restriction of operational rights. Furthermore, a system architecture for management of user rights as well as the delivery of the mobile websites was developed.

The user interfaces of the mobile applications were designed using established UI design patterns.

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