BACHELOR'S THESIS

Self-contained digital forms based on web browser technologies

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The Software Technology Group is offering the a Bachelor's Thesis titled "Self-contained digital forms based on web browser technologies".

Motivation

The goal of this Bachelor's Thesis is to provide a user-friendly format for digital forms that is based on common web browser technologies but independent from any server-side technologies. This means that the majority of use cases can be completely performed on the client-side, thus offline, and do no require any further requirements concerning pre-installed software except for a reasonably modern web browser. A form can be modified by users during the fill-out, but only specific parts of it are actually meant to be modified. This is why the format should enable to check against the original form whether only the intended parts were modified, which is, checking the integrity of the form.

Task

Both the form representation and the contained data should be physically stored together but be logically separated from each other. The digital forms should facilitate an interface for retrieving the contained data, namely the user inputs. It should be possible to access external interfaces to make use of datasets that are independent from the form itself and thus cannot be shipped together with it. Those datasets could, for example, be used to validate user inputs.

Prerequisites

- Some background in web development would be helpful.

Contact

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