

Development of a GraphQL-based reporting component for the secure collection and communication of patient feedback technologies

Type	bachelor-/master thesis
Workingstitle	Development of a GraphQL-based reporting component for the secure collection and communication of patient feedback technologies (Javascript, Typescript, NodeJS, etc.)

Due to the increasing complexity of clinical decision-making processes, there is far-reaching potential in computer-assisted support for clinical decision-makers. Over the past three years, ICCAS has developed an IT platform (<https://kait.health>) for this purpose, which is intended to sustainably improve therapy selection for patients with multiple myeloma.

The aim of the work is the guided design and implementation of a software component that enables personalized reporting by patients and the integration of the given answers into a host system. The focus is primarily on the creation of secure communication channels. The implementation is to be carried out using web technologies (Javascript, Typescript, NodeJS, etc.).

Requirements

- bachelor's degree in engineering or computer science
- interest in the theoretical and practical examination of secure ways of data communication in the area of web-based platforms
- previous experience in the field of development in TypeScript or JavaScript, general web technologies and GraphQL-based interfaces

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