Transferring an existing design and workflow concept into a cross-platform (React Native) app

Context:
Within the context of a neuropsychological study being conducted in Klinikum rechts der Isar's department of neuroradiology, a 31-day course utilizes key aspects of mindfulness meditation to investigate whether mindfulness training can help to promote a healthier relationship with food. The mindfulness course not only allows individuals to become more aware of feelings of satiety, but it also helps to increase the awareness of the food choices made in daily life. In addition, mindful-eating can help individuals regulate their reactivity to stressful situations, which can oftentimes lead to stress-related overeating behaviors.

The relevance and the importance of this course and the app development project has become increasingly more evident during the COVID-19 pandemic. Recent studies suggest that many individuals are not only experiencing increased feelings of uncertainty and stress, but that stress-eating tendencies and engaging in unhealthy eating behaviors have also increased. Moreover, other relevant findings have demonstrated that obesity and its comorbidities can be a major risk-factor in experiencing severe to critical covid-19 symptoms. We are therefore looking for motivated master's students who are interested in helping us with the iOS app development project and are also interested in making a difference and helping to positively contribute to society especially (but not only) during these difficult times.

Project Status Quo:
In previous IDPs, the *design of the app* was conceptualized and validated through an extensive usability evaluation as well as an *early working prototype* was developed using SwiftUI. We are therefore looking for a motivated student to integrate these aspects into **a cross-platform React Native application**. In addition, and in an effort to **evaluate the usability** of the app, we are looking for a student to conduct a usability evaluation.

Tasks:
- Implementing and integrating design aspects into a React Native application
- Usability evaluation of the prototype to collect valuable feedback

Requirements:
- Fluent in German or English
- Knowledge in React Native app development
- Basic knowledge in server/backend development
- Basic knowledge in UI development
- Interest in the topics: app development, design thinking motivation, eLearning, and nutrition

Further Information
If you are interested and would like some more details on the project, time frame, etc., please feel free to contact alyssa.torske@tum.de or martin.lurz@tum.de