

Enhancing patient care: Mobile patient app integration for hospital admission and medical consent

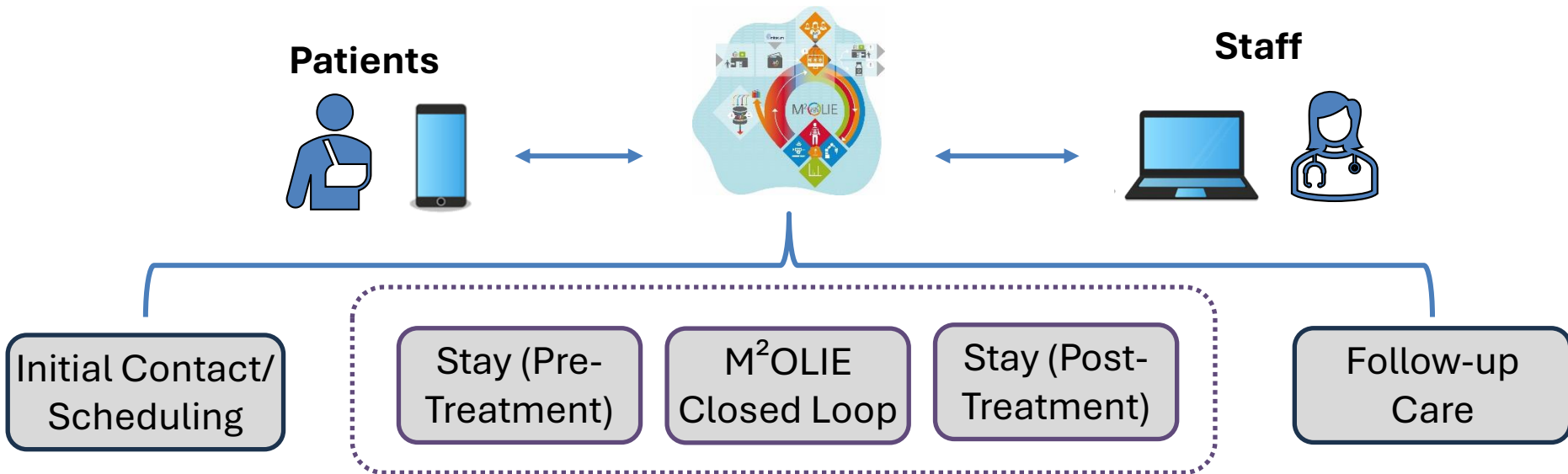
Development of a mobile application in the
clinical context

Problem:

- In a highly coordinated process such as the M²OLIE Closed Loop, **patients may become overwhelmed** and struggle to maintain an overview of their treatment journey.

Goal:

- Develop a **mobile solution** to **support patients** throughout the entire Closed Loop process and beyond, with **seamless integration capabilities** into existing hospital information systems.



Ways to contribute to this project

A

Improve existing features



- Registration and Login
- Appointment Booking
- Upload/Download of Documents
- Treatment Progress Overview
- ...



- Administration Interface
- Tasks and Instructions
- Provision of General Information
- Appointment Scheduling
- ...

B

Add planned features

- Connect to hospital systems for **digital document access and consent forms**
- Enable app registration via **patient wristband scanning**
- Provide secure patient-staff **chat functionality**



C

Research further features and patient support possibilities

- Conduct **interviews with medical staff**
- Implement **your own ideas**

D

Implement FHIR standards

- Ensure **seamless data exchange** between the mobile app and hospital systems across the M²OLIE Closed Loop



GEFÖRDERT VOM

About the Project

- Team of 4-6 students
- M.Sc. Business Informatics or M. Sc. Data Science
- Duration: 6 Months
- Language: English
- Online: Possible, but some mandatory on-site meetings (Kick-off, final presentation)

About You (Prerequisites)

- Knowledge in software development
- Ideally, knowledge of backend development (REST, OpenAPI, etc.), databases, or application development (mobile, i.e., Android/iOS, or web-based);

About Us



Florian Rüffer



Luis Oberste



Prof. Armin Heinzl

Contact: frueffer@uni-mannheim.de