

International Summer School on Advanced Web Engineering

Dates: August 28th - September 07th, 2022

Organisation & Application

Participation Fee: EUR 500, reduced fee of EUR 250 for students from partner institutions; the Summer School is sponsored by the German Academic Exchange Service (DAAD), students can apply for a scholarship of EUR 500 + travel allowance

Selection process: Limited to 30 places. Please send a 1-page CV and a transcript of records and a motivation letter to [ludger.martin\(at\)hs-rm.de](mailto:ludger.martin(at)hs-rm.de) **until May 30th, 2022**.

Instructors:

RheinMain University of Applied Sciences: Prof. Dr. Martin Gergeleit, Prof. Dr. Ludger Martin,
Prof. Dr. Philipp Schaible

Kuban State University: Prof. Dr. Sergey Sinitza

Coordinators: Prof. Dr. Ludger Martin

Credit Points: 5 CP/ECTS

What and how?

Today, the web provides a growing number of increasingly complex applications. Additionally, developers use web technologies to develop hybrid apps for smartphones. Our Summer School teaches the development of hybrid and mobile web apps.

One needs a server to develop these types of applications. To that end, we offer courses in NodeJs with Express and WebSockets. The communication between an app (client) and a server must be secure. We will provide insight into this aspect via topics of authorization and authentication. Increasingly, developers do not operate servers themselves, but rather avail of the services in a cloud. We will explain these options.

From the cloud, we will move on to the technologies for the Internet of Things. Developers, businesses and governments are connecting a large number of devices, e.g., actuators and sensors, to the Internet and making them addressable via apps. We will offer training in these modern technologies and libraries. You can use and test the technologies and application examples you learn in the labs.

At the end of the Summer School, you will apply your learning in a large, comprehensive project, in a team of students from different universities.

The Summer School is rounded off with a cultural program incl. a guided tour of the spa town of Wiesbaden as well as an excursion to the UNESCO World Heritage Middle Rhine Valley.

Contact:

RheinMain University of Applied Sciences
Faculty of Design – Computer Science – Media
Prof. Dr. Ludger Martin
Unter den Eichen 5
65195 Wiesbaden
Email: [ludger.martin\(at\)hs-rm.de](mailto:ludger.martin(at)hs-rm.de)