SOFTWARE ARCHITECTURES ANALYSIS AND DESIGN

Number of ECTS: 2
Synchronous workload: 17
Asynchronous workload: 43
Dates: 01.10.2022. – 31.01.2023.
Language: English
Number of participants: 10

Goal of JCC:

The aim of this program is to expand the knowledge and skills of students from partner universities who receive in the home courses Analysis and Development of Program and Software Architecture. These courses are disjoint, but complementary and allow students from both universities to expand their knowledge in the theoretical and practical level in areas that complement each other.

Learning outcomes:

- model the entire software architecture of the system and design a mobile application
- apply practices and principles of agile development process according to the development methodology "SCRUM"
- develop mobile application and background services
- prepare documentation for architectural design and prototyping product
- explore current trends related to architecture and software product development
- explore DevOps tools and practices
- determine the appropriate SOLID software design concepts to be used in the project
- assess the technical debt of the implemented software project

Learning outcomes assessment:

Verification of learning outcomes would be conducted through formative and summative tests of knowledge. Formative checks would be: self-assessment of knowledge in the form of automated tests/quizzes and direct feedback, self-assessment of knowledge through the application and implementation of the activities covered in the practical project. Summative knowledge tests would include: evaluation of the project application with teacher feedback, evaluation of architecture design with teacher feedback, examination of theoretical knowledge in the form of a classical exam, evaluation of the finished project in the form of presentation and defense of the project.

Teachers:

University of Zagreb:
Zlatko Stapić, zlatko.stapic@foi.hr
University of L'Aquila:
Henry Muccini,
henry.muccini@univaq.it

Prerequisites for the JCC:

Students' need to have attended a basic Software Engineering course. Better if they also have good programming skills in Java, Kotlin or C#

Number and type of assesment:

Students' will have to work together on a shared project. UnivAQ students' will focus more on architectural aspects of the shared project. FOI's students will focus more on the mobile app implementation of the selected joint project.

foi
UNIVERSITÀ DEGLI STUDI DELL'AQUILA

Co-funded by the Erasmus+ Programme of the European Union