

Modern Backend Systems (exercise)

Monday, 5 March 2018 16:30 (1 hour)

On the exercise session, we will apply the theory into an example, by designing & building Recruitment backend system.

First, we will interactively design the UML architecture of the system.

Then, we will progressively add the following elements/concepts:

- Beans: for entities, services, controllers
- JPA (Java Persistence API): We will use Hibernate to handle DB storage of our data
- REST: to expose our backend system controllers as a webservice
- Aspects: adding non-core business logic functionality layer, to our system
- Reactive Streams: adding event-driven design pattern
- Message Exchange \boxtimes using JMS or STOMP {MessageBrokers}
- Microservices: break the monolith into a High cohesion & low coupling backend system architecture.

Technologies used are Java8 & Spring.

Participants will be provided a basic skeleton on which they will be able to add, build and test their solutions.

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