

ILP / 1

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Welcome and hello

You are in a lecture where you will be learning plenty of new things

The same as you will hopefully do all your professional life

HAVE FUN

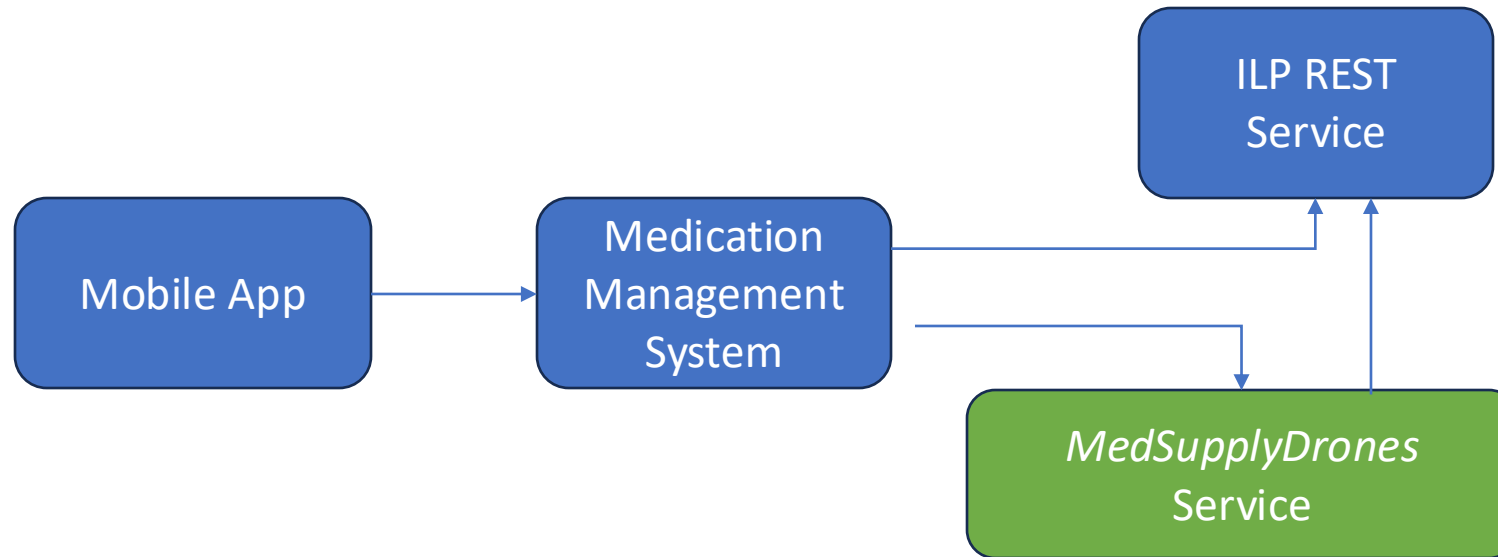
Introduction to ILP and overview

- Who is that man at the blackboard? A bit about my background...
- How is the course organized?
- Important dates
 - CW1: 20.10.
 - CW2: 24.11. & 01.12. (your part + video)
 - 01.12. - 14.12. Oral examinations
- Expectations
- Reading materials

Introduction to ILP and overview /2

- Improvements from the past
 - Marking consideration, programming, CW1 / CW2
 - Your contribution + video
 - Oral exams
 - Tutorial & Lab organization (onsite / online)
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- What is ILP about?
 - What do I want to convey to you?

What are you going to build...



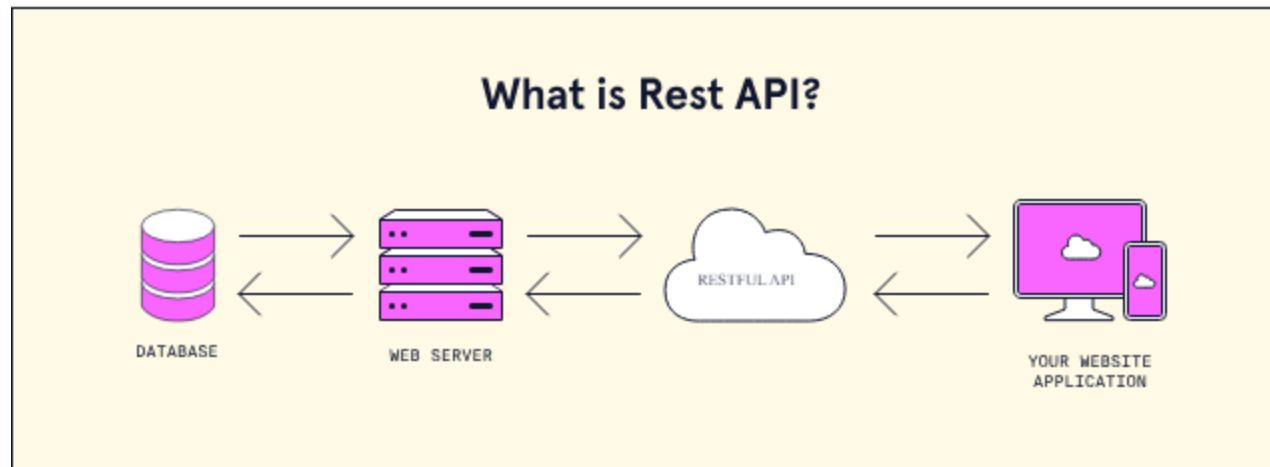
[See a bit of a live demo](#)

What are Web-Services?

- Pieces of software, available over a network (usually the Internet), providing data and / or functionality to callers
- Nowadays (for our use) usually based on REST
- Alternatives are:
 - gRPC
 - plain http
 - native TCP/IP
 - Broadcasts (UDP)
 - Events / messages (Kafka, RabbitMQ, MQSeries, ...)
 - MQTT
 - ...

What is REST?

- REST = Representational State Transfer
- Good intro: <https://www.codecademy.com/article/what-is-rest>



A deeper look at the requests / responses

- Show the flow with postman / sample app

Main features of REST-services

- Separation of client and server
- Statelessness
- http as communication protocol
- Using verbs and content-type

Tools you will need

- IntelliJ (or any Java environment)
- Git (IntelliJ has a starter pack - <https://lp.jetbrains.com/free-git-starter-pack/>)
- docker
- Postman (or any client issuing GET / POST commands)
- curl (command line tool)