openHPI Intro

Benjamin Bergner
Data Management for Digital Health
Winter 2019
What to Expect for Exercise 01? General Instructions for all Exercises

- **Procedure:**
  - Achieve at least 50% of points online on [OPEN HPI](#).
  - Conduct the exercise whenever it fits your schedule within the assigned time slot.
  - Complete the exercise prior to its scheduled deadline (announced during class).

- **Important:**
  - Multiple choice questions might have multiple correct answers.
  - You need to mark all correct options to get points granted, i.e. **all or nothing**.
  - You will have a total of 4 exercises and **all** have to be passed.
What to Expect for the Exercise 01?

Topics to be Covered

- Categories of Digital Health Data
- Clinical Software Architectures
- Machine Learning (ML) and ML Process Model

- 25 questions / 50 pts in total

Exercise 01 due on November 19th, 23:59 CET
Welcome to openHPI

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More information
History of Enterprise Computing

About this video
In this video, Prof. Plattner gives you some insights into the development of modern enterprise systems.
Please note that there is no additional reading material for this introduction.

Downloads
- Video (HD) as MP4
- Video (SD) as MP4
- Audio as MP3

Discussion topics
- Aggregates (11 replies)
- What are aggregates actually? If I take a simple example of a Sales order, all the line items have individual orders. And I am.
- Pdf document is empty (2 replies)
- It seems like the corresponding pdf for the chapter is empty, are chapter 1 and chapter 2 missing?
- Reading material: PDF has no contents (1 reply)
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More Information
Welcome to the class: we are very excited that you are interested in learning more about the foundations data management for digital health. In this lecture, we will provide you concrete examples from the field of digital health to understand where and how data is acquired, what are the challenges with these specific types of data, and how to handle them.

In the course, we will have invited guest speakers sharing their real-world experience with you in a brief presentation. You will also have the chance to raise your questions and discuss with them in the course of the lecture. Furthermore, you will have the chance to gather hands-on experience, e.g. you will have the opportunity to join on-site visits of our cooperation partners in Berlin.

Course information

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The structure of the lecture is as follows: Firstly, we will have a brief biology recap to equip you with the foundation of human cells and their functions, genetic changes and their impact, as well as annotation data and how it is used today. Just two decades ago, all these tasks would have been impossible due to missing knowledge about the DNA and a lack of computational power. As a result, you will learn basic concepts...
Quiz Instruction:

Dear Student,

You are about to take Exercise I for the lecture "Data Management for Digital Health". As you already know, it is a requirement for the lecture’s final test. Please make sure that you have an undisturbed environment for the next 180 minutes. We have 25 questions with a total score of 40 points. We think that you can make it much faster, but please be aware that you only have one try. Once you have started the exercise, the timer can’t be stopped.

Rules:

- You can submit the exercise only once, and you have 180 minutes time. When time is over, your selections will automatically be submitted. Logging out or shutting down your computer will not stop the timer.
- For Multiple Answer questions:
  - Sometimes there is more than one possible answer.
  - The number of points does not necessarily indicate the number of correct answers.

This is a graded assignment/exam

- Max. 180 minutes
- 1 attempt
- 25 questions
- 40.0 points
- Due on November 15, 2019 at 09:00 (UTC)

Results available from Tuesday, November 13, 2019 23:59 (UTC)