

PA195: NoSQL Databases

Course Organization

Fall 2024

Overview

- Lectures
- Home practice
- Seminars for group projects

- Completion – colloquium
 - Passing all group project assignments

Lectures

- **Weekly** lectures
 - Slides will be available in IS.
 - (An **invited talk** by an expert from industry/academia.)

Seminars

- **Bi-weekly** in a computer room
 - Seminar schedule is in its interactive syllabus in IS.
- You **can use** your own **laptop**
 - prerequisites are to install certain SW (Java SDK & Idea, ...)
 - But no support is provided by the seminar tutor!
- Solving group assignments

Group Assignments

- During the **course**:
 - Detailed **description** of **5-7** technologies, namely **HDFS, Hadoop MapReduce, Redis (Riak), Infinispan, MongoDB, Cassandra, Neo4j**
 - <http://db-engines.com/en/ranking/>
- Objectives of the **2-3 group assignments**:
 - Apply a NoSQL database to the given problem,
 - actually, **use** those systems to load data and perform some tasks, and
 - **present** the findings to the seminar tutor.

Assignment Details

- You will form a team of 4 students
 - It may vary from seminar to seminar.
- Analyze the given problem
- Solve it **with** a NoSQL **technology**
 - or a **Big Data processing** technology.
- Show the solution
 - **to be approved** by the seminar tutor.

Course Completion

- All group assignments must be **approved** to pass the course.
 - We expect 2-3 assignments.
 - If you do not get approval, you need to fix it in the next seminar (or a home) to show it for approval again.
 - If it is **unavoidable**, you can attend **another** bi-week seminar.

Spotted a mistake? Report it, please.

Any **questions?**