Enterprise System Integration
(MTAT.03.229)

LECTURE 15: COURSE WRAP-UP, REVIEW, AND EXAM PREPARATION

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Exam - general information

The final exam will worth 50 points. The remaining 50 points are obtained from the assignments and project. You need to register for the exam through the information system as usual.

The final exam requires physical attendance and it will be conducted through Moodle. Therefore, you will need to bring your laptop with you.

To pass the course, you must score at least 21 points (out of 50) in the final exam (or resit) and a total score of at least 51 points (exam + assignments + project).
The duration of the exam is **3 hours and 30 minutes** (including theory and practice), and the dates are:

Exam 1: 23.05.2022 14:15-18:00 (3.5 hours).
Exam 2: 06.06.2022 14:15-18:00 (3.5 hours).
**Resit exam:** 20.06.2022 14:15-18:00 (3.5 hours) - Resit is allowed only for those who failed the previous exams.
Exam structure

The final exam consists of two parts, \textit{theory (25 points)} and \textit{practice (25 points)}.

Theory part (25 points)
It will consist of short answer questions regarding the concepts addressed during the semester. You can check the materials under the Lectures tab in this wiki, e.g., check the recorded videos and links to other related materials.

Practice part (25 points)
The practice part will follow a profosefully/deliberately/initially \textit{vague style}, which means the student needs to figure out how to solve this question.

Why this style?
\begin{itemize}
  \item To assess how the student defines the problem to be solved; and
  \item To assess how the student will use his acquired knowledge to solve the defined problem.
\end{itemize}

In short, this means that this practice will not contain \textit{detailed tasks} (e.g., T1, T2) to be performed.
Theory part

Mini scenario: describing an integration problem.

P1 - Q1. Integration requirements question [2 points]
P2 - Q2-5. Domain modeling questions [8 points]
P3 – Q6. REST API question [5 points]
P4 – Q7-Q10. Design decisions questions [10 points]
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P3 – Q6. REST API question [5 points]
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P4 – Q7-Q10. Design decisions questions [10 points]
The practice part will consist of one scenario to be developed. You will be asked to either develop a back-end application, or you will be provided with a fully functional back-end application and asked to develop a front-end application.

IMPORTANT: Your developed application must be hosted on Heroku. You have to implement the CI/CD method to automate the process of Continues Integration and Deployment using Github Actions.

Your project source code should be hosted on Github, the repository should be made Private, leave your solution in the “master” branch of your repository, and add me (mohamad.gharib@ut.ee) to the repository as a collaborator with all permissions.

Please submit the links to your Github repository and the Heroku apps in the answer to this question in Moodle. Do not make any commits to “master” after the end of the exam.

You MUST commit any changes made to the repository every half an hour and of course when you finish.
Practice part

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Your developed application must be hosted on Heroku. You have to implement the CI/CD method to automate the process of Continues Integration and Deployment using Github Actions.

Your project source code should be hosted on Github, the repository should be made Private, leave your solution in the "master" branch of your repository, and add me (mohamed.gharb@ut.ee) to the repository as a collaborator with all permissions.

Please submit the links to your Github repository and the Heroku apps in the answer to question 5 in Moodle.

Do not make any commits to "master" after the end of the exam.

You MUST commit any changes made to the repository every half an hour and of course when you finish.

Note: if we observe suspicious behavior, the student involved will be called for an online interview. Examples of suspicious behavior can be, all the commits happening at the end of the exam or with a non-realistic timeline, too many similarities between projects, etc.
You have a test exam already available in Moodle, it is open until 22 of May.
Thank You for your attention

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