SOFT3215 Software Architecture
Fall 2024
HW #1 (50 points), In groups of maximum two students
Due Date: 24.10.2024 23:59

IŞIK UNIVERSITY
COMPUTER SCIENCE AND ENGINEERING

Inspect the open source project described in the following website:

https://www.open-hospital.org/

for which the code repository can be found on Github:

https://github.com/informatici

1. **(25 Points)** Model the static aspects (from logical/structural viewpoint), and the dynamic aspects (from a behavioral viewpoint) separately, of the above mentioned software system with, either:
   a. UML (class diagrams not required); two separate models, one for static aspects (logical/structural viewpoint), one for dynamic aspects (behavioral viewpoint)

      or;

   b. C4 (code level not required); two separate models, one for static aspects (logical/structural viewpoint), one for dynamic aspects (behavioral viewpoint)

   Each model you come up with can consist of several diagrams, depending on your choice. You should come up with a proper level of detail, and versatility in your designs so that the models you constructed are consistent within themselves. Note that you are expected to select one of the notations mentioned above (UML or C4), and provide your models in that notation only..

2. **(10 Points)** Compare and contrast your experiences from the first part above, and note what kinds of information were easy, hard, or impossible to capture and model in either of the notations. Explain how you established the consistency among the notations.
3. **(10 Points)** What was available in the project web site with regard to architectural documentation of the system? What was missing? How did this affect your work for this assignment?
4. **(5 Points)** If you were a project manager for a software project, how much of a project's budget would you devote to software architecture documentation? Why? How would you measure the cost and the benefit?

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You can use Visual Paradigm or any other tool you are comfortable with, for your modeling and visualizations. Please submit your deliverable for the assignment as a single "*.pdf*" file via the Blackboard system, under the following file naming scheme:

<team_member1_name_last_name_number_team_member2_name_last_name_soft3215_hw1.pdf>

Late Acceptance Policy: Late submissions after the deadline will not be accepted.

Good luck.

The best software is simple software. Don't confuse people by introducing complexity that isn't absolutely necessary - Steve Jobs