

## CENG350 SOFTWARE ENGINEERING

SPRING 2022-2023

### PROJECT SPECIFICATION, v1.0

You will perform (i) requirements engineering and (ii) architecture design for a particular software-intensive system, and prepare the associated documents complying with the related standards.

The topic of this semester's project is *afetbilgi.com* [1], a project which was quickly started by a group of volunteers when earthquakes hit on February 6<sup>th</sup>, 2023, in order to support help efforts for earthquake victims. The source codes of the project are available on GitHub.

The basic task in this semester's project is modelling and documenting the *afetbilgi* web application as is. However, in the inventive spirit of the volunteers, you are expected to go beyond the existing software and propose improvements.

#### **Deliveries (both in two instalments):**

- i) Software Requirements Specification (SRS) (ISO/IEC/IEEE 29148-2011) [15% = 1.5% for part-1 + 13.5% for full document]
- ii) Software Architecture Description (SAD) (ISO/IEC/IEEE 42010-2011) [20% = 2% for part-1 + 18% for full document]

Guidance will be provided on the application of these standards in the project.

Project work, including background knowledge, will be part of examination coverage (midterm and final exams).

#### **Ground Rules:**

- You may work alone or with a partner. The workload will be the same.
- Students registered in different sections can be on the same team.
- Discussion and delivery medium: ODTUClass. Follow the instructions.
- Modeling language is UML 2.x. You must use StarUML [2], most recent version.
- When you need clarification on *afetbilgi* you may pose your questions on our ODTUClass discussion forum. Please, do not try to get in touch with the original developers.
- Rubric for grading will be issued separately.
- For administrative matters you may send an e-mail to our TA İbrahim Tarakçı, [tarakci@ceng.metu.edu.tr](mailto:tarakci@ceng.metu.edu.tr)

### **Detailed Schedule**

1. SRS part-1: SRS document, fully formatted, including the system context and the interaction view only: April 12, 23:55.
2. Final SRS: full document, April 19, 23:55.
3. SAD part-1: SAD document, fully formatted, including the composition view only: May 17, 23:55.
4. Final SAD: full document, May 24, 23:55.

Late submission will be subject to significant penalty.

### **References:**

[1] <https://www.afetbilgi.com/>

[2] <https://staruml.io/>