

Software Development Project – Detailed Design

Overview

In this activity, students will refine and revise the architecture and develop the detailed design for the Learning Management System application. Each team will produce a *Software Architecture and Detailed Design* document (SADD). In addition, each team will present their design to the class.

Each team member was assigned one or more components during architecture design, for which she/he will develop the detailed design, using at least one design principle or pattern. Each student will present her/his detailed design in class, showing which principle(s) or design pattern(s) she/he applied.

The team will develop and deliver the *Software Architecture and Detailed Design Document (SADD)*.

The design lead, together with the project manager, are responsible for the coordination and timely completion and submission of the required deliverables for this phase. The effort spent in this activity needs to be recorded and project progress needs to be tracked against the plan. Risk management has to be performed throughout this phase. Project management artifacts will be presented and discussed in class.

Description

The *Software Architecture and Detailed Design Document (SADD)* must specify the design for the software to be developed.

The SADD content and format will follow the example template provided for this class project.

Deliverables and Schedule

The deliverables for this phase are:

- Software Architecture and Detailed Design Document (SADD) (MS Word or pdf file)
- Updated project management documentation: project tracking and risk management (MS Excel file)

These files must be submitted through ELMS (Canvas), by the deadline specified in the syllabus. When you work with large files, please zip them before uploading in ELMS.

Peer review must be performed on the *software design deliverables* by the respectively assigned *Reviewer Team*. The Reviewer team must review the *SADD*, record issues and questions, and bring them to be asked in the class presentation.