

Software Development Project - User Interaction Design

Overview

In this activity, students will apply the User Centered Design concepts to design the User Interaction (UI) for the Learning Management System. Each team will produce models of the users and users' interaction. In addition, each team will present their UI design to the class.

Each team member will fairly contribute to the user interaction design activity. The UI lead, together with the project manager, are responsible for the coordination and timely completion and submission of the required deliverables for this activity. The effort spent in this activity must be recorded, and project progress needs to be tracked against the plan. Risk management has to be performed throughout this activity.

Description

The team will perform the following tasks:

- Model the LMS users, by developing three personas: one for a typical user, one for a special (non-typical) user, and another one for an attacker. The "special" user can be e.g., a user with special needs or who uses a special technology (different than the typical computer I/O devices, i.e., screen, keyboard, mouse, touchpad).
 - Explain what needs/requirements for your system you have identified due to this modeling.
- Develop a user interface flow model of the high-level relationships between major user interface elements, using a User Interface Flow Diagram (you could use UML state machine diagram as well)
- Develop a prototype of the user interaction with the system, using wireframes and story boards for the three personas. Use [Pencil](#) to create the prototype.
- Update the Project Plan and Management workbook

Deliverables and Schedule

The deliverables for this phase are:

- Personas description and User Interface Flow Diagram (or UML State machine diagram) – in a Word or pdf file
- HTML files for the Pencil prototype (**make sure the links between screens work**)
- Updated Microsoft Excel workbook for project management

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 User Interaction deliverables by the respectively assigned *Reviewer Team*. The Reviewer team must record issues and questions, provide them in ELMS, and bring them to the class presentation.