D08 – Lessons learnt

This document describes Deliverable "D08 – Lessons learnt", whose deadline is February 27, 2015 at 23:59h. Please, recall that you must produce your deliverable and upload it to the USE's e-learning platform by the deadline; failing to produce your deliverable in time amounts to failing the subject.

We, the lecturers, assume that if you submit this deliverable, then you understand what the consequences are if you lie regarding the following items, where "I", "me", "my", and other first-person pronouns refer to you, the student who is reading this document:

[×] I'm the legitimate author of this deliverable; I'm not cheating.

[×] If I have some partners, then I've collaborated with them on producing this deliverable; in other words, neither am I riding their coattails nor gobbling them up.

[×] I've learnt from working on this deliverable, so that I can pass my control checks.

[×] I've organised the deliverable according to the guidelines that are available in document "On your deliverables.pdf", which is available at the USE's e-learning platform.

[×] I've made sure that this deliverable fulfils the requirements to get a/an ___A+___ (C, B, A, or A+).

[×] I fully understand that my deliverable will be considered failed if I fail to meet any of its requirements, or if I do not deliver a filled, dated, and signed copy of this document.

[×] I fully understand that failing this deliverable amounts to failing the subject.

(Please, check the previous items and write the level of your deliverable. It's compulsory that you fill in this form and that you date and sign it; otherwise, your deliverable won't be evaluated, which amounts to failing the subject.)

_____ https://projetsii.informatica.us.es/projects/xhd6cqra9c9zxd4nfev _____

URL of your deliverable in ProjETSII

_____ 27 de Febrero de 2015 _____   _____ 32 _____

Place, date   Group number

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Authors' names and signatures

Instructions

Please, select a level and produce the items that are specified below:

- Level C: Items 1-5 regarding the C-level requirements of project "Acme Pilgrim".
- Level B: Items 1-5 regarding the C- and B-level requirements of project "Acme Pilgrim".
- Level A: Items 1-5 regarding the C-, B-, and A-level requirements of project "Acme Pilgrim".
- Level A+: Items 1-5 regarding the C-, B-, and A-level requirements of project "Acme Pilgrim", plus Items 6 and 7.

The lecturers will evaluate your results as follows:

- Regarding laws:
  - They'll check that your project complies with the minimum requirements that we've presented in the lecture notes about the following laws: LOPD, LSSI, and Transpositions, except for keeping your files and communications secure and confidential.
- Regarding management:
  - They'll check your project in ProjETSII. They'll check that you have a project, and that you've created and reported on the appropriate tasks. Don't forget to report on the time that you spend at your lectures, at co-ordination meetings, or at studying your lessons.
  - They'll pay special attention to checking that the tasks were created at reasonable moments and that the reports happened at reasonable moments. In other words, a project in which every task and report was created on the last day will not be accepted.
- Regarding documentation:
  - They'll check that you've produced a document with an estimate of the total number of hours you've spent in this project and the total cost expected.
  - They'll check that you've produced a good conceptual model.
  - They'll check that you've produced a good UML domain model.
  - They'll check that you've produced comments in your code where appropriate, e.g., to document complex queries.
- Regarding JSP views:
  - They'll check that you're using customs tags to make your views more compact and less error prone.
- Regarding query efficiency:
  - They'll go through your repositories and check that you've defined appropriate indices for your domain entities.
- Regarding hacking:
  - They'll go through your services to check that you check the principal in order to prevent GET hacking.
  - They'll analyse your views and form objects, as well as your controllers and services to check that you're preventing POST hacking.
- Regarding the requirements:
  - They'll run your project as indicated in document "On your deliverables.pdf", which is available at the USE's e-learning platform.
  - They'll check that you've implemented every information and functional requirement well.
  - They'll enter as much invalid and malicious data as possible in the edition forms, just to check that you keep them under control.

Requirements

Item 1.   Deliver a report with the tasks that you've accomplished to produce this deliverable. The report must list the name of every task, the moment when it started, the moment when it finished, and the number of hours spent on it. It must also report on the total time spent in the project and the total cost.

Item 2.   Deliver a new version of the project template that takes into account the legal requirements that we've taught you. The new version is expected to be called "Sample Project 1.4.1" and you're expected to use it in the forthcoming deliverables.

Item 3.   Deliver a conceptual model and a UML domain model regarding your project.

Item 4.   Deliver an Eclipse/Maven project that fulfils the requirements in the Acme Pilgrim project statement.

Item 5.   Deliver a script to create the corresponding database in the pre-production environment and a war artefact that implements your project and can be run on domain "www.acme.com".

Item 6.   The LOPD requires personal data or data that is regulated by a contract to be handled and communicated securely and confidentially. Handling data confidentially requires your application to handle each customer's data independently from the others and to keep the computers in which you store them secure; that is, this is actually related to how you design your system and how you setup your production configuration. Secure and confidential communications have to do to the HTTPS protocol; you need configure your Tomcat service (not the developer's version that you use in Eclipse or by means of Maven, but the Tomcat service that you use in your pre- or production configuration) so that it handles the HTTPS protocol. To earn an A+, you must guarantee that your project uses the HTTPS protocol in every communication from the moment a user authenticates on; that is, only anonymous users can use the common HTTP protocol. Please, note that the project that you deliver in Item 4 must not take secure communications into account. You must deliver an independent project in this item.

Item 7.   Write a report in which you explain what the lecturers have to do to check your project. Please, provide configuration files and detailed explanations so that the lecturers can configure their pre-production configuration and run your project using secure communications. It's strongly recommended that the report is checked by a partner who didn't write it; otherwise, you may easily forget a critical step that will prevent your lecturers from checking your project.