

D&T – Control check (#001)

Responsibility statements

Surname, name

Signature

ID number

Place, date

[] I haven't asked any questions about this document. I've interpreted it, and I've produced an answer to the items I've been requested to produce.

[] I've read and I've understood the announcement that was published at the USE's e-learning platform, where the lecturers reported on the co-ordinates, the rules, the contents, and provided some pieces of advice regarding this control check.

[] I'm the legitimate author of the items that I've been requested to produce.

[] I haven't exchanged any information with other people regarding this control check.

Request for maintenance

Acme Newspaper sent the following maintenance request to us:

- A newspaper may have zero or more associated **AUDITS**, which are kind of audits. The system stores the following data about them: an auto-generated read-only unique ticker (must match pattern "**^\\W{2}-MM/DD/YY\$**", where "yy", "mm", and "dd" refers to the year, month, and day when the **AUDIT** is created), a short title (**10**), a description (**100**), a gauge (in range 1-3 points), and the moment after which they can be displayed, which must be in future or none (**IF NO MOMENT SPECIFIED, THEY CAN BE DISPLAYED IMMEDIATELY**).
- Every actor who can display a newspaper must be able to:
 - o Display the **AUDIT** that are associated with it, as long as **IS SAVED IN FINAL MODE**.
- An actor who is authenticated as an administrator must be able to:
 - o Write an **AUDIT** and save it in draft mode or final model. **AUDIT** can be modified as long as they are saved in draft mode.
 - o Associate an **AUDIT** that was saved in final mode to a newspaper.
 - o List the **AUDIT** that he or she's written.
 - o Edit and delete the **AUDIT** that he or she's written.
- Wherever a newspaper is shown, the system must display its corresponding **AUDITS** using the following colour scheme: 1-point **GAUGE** in LightYellow, 2-point **GAUGE** in Moccasin, and 3-point

GAUGE in Blue. Their moments must be internationalised as follows: “dd-mm-yy hh:mm” in Spanish and “yy/mm/dd hh:mm” in English.

Requested items

- Item 1. Comments:
 - a. A README.TXT file in which you comment on your doubts and the decisions that you’ve made. Please, keep this item empty unless it’s strictly necessary.
- Item 2. Models (UML):
 - a. A conceptual model that takes the maintenance request into account.
 - b. A domain model that takes the maintenance request into account.
- Item 3. Project (Eclipse/Maven/JUnit/JMeter):
 - c.
 - d. It must include a “PopulateDatabase.xml” file that populates the database with at least two **AUDITS** written by “admin/admin” and two additional ones written by “admin2/admin2”.
 - e. b. It must include one positive and one negative test case regarding an administrator who writes a **AUDITS**, saves it in draft mode, then changes it, and saves it in final mode.
 - f. c. It must include a performance test in which an administrator authenticates, next lists the newspapers, next lists the **AUDITS** of a newspaper, next writes a new **AUDITS**, saves it in final mode, and associates it with a newspaper.
 - g. Item 4. Queries (JPQL):
 - h. a. A query that returns the ratio of newspapers with at least one **AUDIT**.
 - i. b. A query that returns the administrator/s who has written more **AUDITS**.
 - j. Item 5. Deployment (SQL/WAR):
 - k. a. A SQL script to deploy the database to the pre-production environment.
 - l. b. A WAR artefact ready to be deployed to the pre-production environment.

Delivery instructions

Please, upload a zip file with the requested items to the USE’s e-learning platform. Please, make sure that your zip file is named after the following pattern: “*Surnames-Names-001.zip*”, where “*Surnames*” refers to your surname/s, “*Names*” refers to your name/s, and “001” is your unique control check key. Make sure that you submit your Eclipse/Maven project, not your Eclipse workspace.