

# D02 – Functional testing Requirements

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## Requirements for levels C, B, and A

- Item 1. A document that describes the costs of your project. The rest of the documentation is expected to be provided in your project management system and your source code, where appropriate.
- Item 2. A conceptual model and a UML domain model for project “Acme Parade”.
- Item 3. An Eclipse/Maven project that fulfils the requirements in project “Acme Parade”. The project must include a functional test suite regarding Requirement #1 (Brotherhoods can manage their histories). The suite must include at least five positive test cases and five negative test cases. For the remaining use cases, the test suite must include at least one positive test case and one negative test case. Every test case must be documented in the code using the following information: a) requirement tested; b) in the case of negative tests, the business rule that is intended to be broken; c) analysis of sentence coverage; d) analysis of data coverage.
- Item 4. A script to create the corresponding database in the pre-production environment and a war artefact that implements your project. The war artefact must be deployable and runnable on domain “www.acme.com”.
- Item 5. A deployment to Clever Cloud ready to be used. Don’t forget to include a readme file with the URL to check your project and the administration URL (including your credentials).

**NOTE:** please, recall that it’s mandatory that you project complies with the EU GDPR, except for the obligation to hire a data officer. Please, consult the evaluation procedure for further details.

## Requirements for level A+

- Item 6. Testing services and repositories from a functional point of view is relatively easy with the theory that we provide in this lesson. Unfortunately, testing controllers and views is not easy at all. Currently, there are a number of frameworks available to test controllers, or, more generally, servlets.
  - a. Choose the servlet testing framework that you prefer, learn to use it, and deliver a version of your project in which you include at least one test case regarding one of your controllers.
  - b. Write a report in which you explain what the lecturers have to do to check your A+. Please, report on the testing framework that you’ve chosen and comment on the test case that you’ve implemented. The report’s expected to be 1 000-word long; illustrations are strongly recommended.