

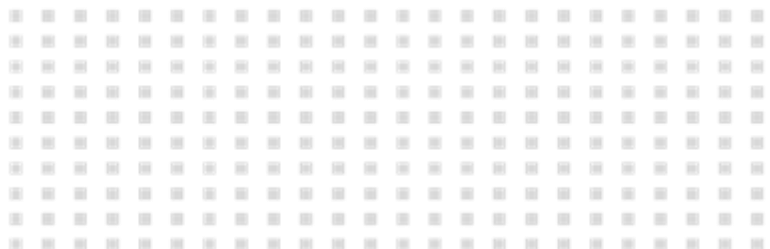


ACME-SF

G1.007

Previous knowledge about testing

14 February, 2024



Cover

Repository: <https://github.com/Pablo-Caballero-Maria/Acme-One-24.1.0-C1.07>

Student #1

ID: 31878881F

UVUS: pabcabmar3

Name: Caballero María,

Roles: manager, developer

Student #2

ID Number:49034820Q

UVUS: mararnmon

Name: Arnáiz Montero, Marco Antonio

Roles: developer, operator

Student #3

ID Number: 77865211E

UVUS: alfalolan

Name: Alonso Lanzarán, Alfonso Luis

Roles: developer, tester

Student #4

ID Number: 53932912M

UVUS: albsanmim

Name: Sánchez Mimbrero, Alberto

Roles: developer

Student #5

ID Number: 48123111G

UVUS: juagarcar4

Name: Garcia Carballo, Juan

Roles: developer

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Executive summary

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Revision table

Number	Date(dd/mm/yyyy)	Description
1.0	14/02/2024	Document done in its entirety, reviewed by peers. No major errors were found.

Introduction

The purpose of this document is to explain the previous knowledge of the group members about the testing of a web information system. This knowledge has been learned through previous subjects such as AISS, ISSI I and ISSI II, DP1, and involves a wide range of both theoretical and practical knowledge about web information systems testing, different techniques and technologies.

Contents

The knowledge acquired in software testing for a Web Information System (WIS) draws from diverse learning experiences. Unitary testing, performed using JUnit 5 and Postman, involved testing controllers and scrutinizing API functionality, with assertions serving to validate expected outcomes. We used this in order to do "integration testing".

A foundational testing approach emerged through the implementation of standard SQL triggers. This phase introduced a method of testing, applying basic business rules that pertained to entities within the domain model.

We also know basic validation techniques using Express validators, providing a fundamental understanding of syntactic validation.

In the subject Design and Testing 1 (DP1), a comprehensive exploration of testing techniques unfolded. This encompassed unitary testing using JUnit Jupiter, "isolated testing" employing mocks for repositories, services, and controllers, and "social testing" that involved real components of the system. The execution of tests was facilitated through Maven lifecycle features. Moreover, advanced testing concepts, such as metamorphic testing and parameterized testing, were introduced in the theoretical classes.

The practical application of knowledge extended to the implementation of continuous integration using GitHub features in the A+ task of a member of the group. This involved executing Postman tests with each push and merge, thereby integrating testing seamlessly into the development lifecycle.

Conclusions

Bibliography

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