**INFORME DE ANÁLIS IS**



**Grado en Ingeniería Informática – Ingeniería del**

**Software**

**Diseño y Pruebas 2**

**Curso 2024-2025**

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# Executive Summary

The analysis of the requirements is crucial in the developments of software systems, it makes us capable of measuring and documenting the requirements of the interested parts. This documents shows the final analysis of the student 5 in the last

# Review Table

|  |  |  |
| --- | --- | --- |
| Version | Description | Date |
| v1.0 | Initial version | 26/05/2025 |
| v2.0 | Initial version | 26/05/2025 |

# Introduction

The document provides a detailed analysis of the requirements for the fourth individual project deliverable, aiming to make them as clear as possible. First, the requirements will be presented, followed by an explanation of any issues that may have arisen during their resolution, along with the reasoning behind the decisions made.

# Contents

## Analysis of the individual requirements

**MANDATORY REQUIREMENTS**  
**Produce a test suite for Requirements #8 and #9**  
The task is to create test cases based on the methodologies covered in the course for individual requirements #8 and #9, which involve the functionalities of the entities **Task**, **MaintenanceRecord**, and **InvolvedIn**.

**Alternative 1:**  
Develop the test cases by distinguishing between .safe and .hack files as described in the course materials, providing a wide range of data and achieving full and appropriate data coverage.

* For .safe files, tests must follow the guidelines provided in the theoretical material. Only one file per test is needed if it achieves adequate data coverage.
* For .hack files, tests must also follow the theoretical guidelines, with one file per possible hack case, clearly differentiated in the filename according to the type of hack tested.

**Pros:**

* Tests are created with complete data coverage as specified in the course materials.
* The implemented constraints are properly verified.
* A clear view of all the test cases addressed is provided.
* The different hack cases tested in the system are distinguished.

**Cons:**

* Intentionally left blank.

After analyzing the options, it was decided to use **Alternative 1** as the solution.

**10) Produce a testing report**  
The task is to create a testing report.

**Alternative 1:**  
Create the report following the structure provided in the **Annexes document** given by the faculty, and rely on the theoretical material for the content of the performance testing section.

**Pros:**

* A clear and appropriate structure is followed for creating the report.
* There is a clear overview of the required content, with a distinction between functional and performance tests.

**Cons:**

* Intentionally left blank.

After the analysis, **Alternative 1** was chosen as the solution.

# Conclusions

This report includes an analysis of the requirements requested for the fourth deliverable of the course. It is concluded that all the requested requirements were fulfilled, although with some complications, especially in the system testing phase, as it was laborious to ensure that everything was properly tested with maximum coverage for each operation. However, it proved to be very useful for verifying the proper functioning of the system and for learning new tools.

# **Bibliography**

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