Universidad de Sevilla  
Escuela Técnica Superior de Ingeniería Informática

**Analysis report D04**



Degree in Computer Engineering – Software Engineering  
Design and Testing II.

Academic year 2024 – 2025

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# Versioning

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| --- | --- | --- |
| Date | Version | Description |
| 26/05/2025 | v1.0.0 | Creation of the report |

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# Executive summary

This document serves as a report necessary for the correct execution of the project. In it, the doubts generated along with the development of the project, especially when interpreting the requirements given by the department, will be analyzed and resolved.

The objective of this deliverable was to test the features developed in the last deliverable.

# Introduction

This report includes a detailed analysis of any and all requirements deemed not specific enough and from any decision that may need to be argumented. There will be a reference to the requirements, a listing of the possible options and a conclusion of how the doubt was resolved, aided by the validation of a professor when available.

# Contents

## Flight assignments

### Problems

A flight assignment cannot be assigned to a crew member that is not available. The sample data contains data that does not align with this constraint.

Possibilities:

* Change the sample data so that all assignments follow these requirements.

This will mean possibly disrupting all sample data and leaving some users without sample data in their accounts or some data values that are never used.

* Keep the sample data as is.

Some update operations will not be possible because the system does function and will not allow to store these assignments in the database.

### Conclusions

I decided to keep the sample data as is, so that no matter which user account one logins as, there will be something to interact with. Most tests are made with the member1 credentials, specially because of their lead attendant duties and the regarding constraints. However, I considered that having example data is more important than following all constraint absolutely.

If one tries to update these assignments with the data as is, the system will identify the problems, so there is never wrong information being saved

## Activity logs

### Problems

An activity log has to be registered in the past and after a leg’s scheduled arrival. Because our system is static and time doesn’t pass and because of the legs’ requirements, a student 1 entity, no leg can be created or successfully created.

The possibilities to resolve this problem are similar to the above described, being the first possibility (following all requirements) consequences even harsher than for assignments, as this would mean not having any activity log registered in the system.

### Conclusions

I considered that having a perfect system with no sample data is worse than having a perfectly working system with wrong sample data, so I decided to keep the data as is.

This means that there is no possibility of creating or updating any activity logs but it is possible to check validation and test some cases that, without data, would be absolutely impossible.

# Conclusions

This analysis report serves more as an explanation than a discussion, however, the inconsistencies were so major than I considered this necessary for understanding why the system and the data works as it does.