

Analysis Report



Acme AirNav Solutions, Inc

Group Number: C1.066

Repository: <https://github.com/mquirosq/DP2-C1.066>

Student #2:

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Executive Summary

This document is a collection of records of the analysis that was conducted to the requirements corresponding to Delivery 04 of Student #2. Only requirements needing some analysis are included. Each record contains a verbatim copy of the original requirement, a detailed analysis of possible solutions with their advantages and disadvantages, and decisions made to refine the requirements. Additionally, a link to the validation performed by the lecturer is provided.

The main issues identified involved a bug in Firefox that performed a request when opening the DevTools inside a form. This request was not properly recorded and when replayed would throw an error. This could be solved by opening the DevTools before accessing any form.

Revision History

Revision	Date	Description
1.0	2025-05-22	Initial draft
1.1	2025-05-25	Review

1. Introduction

The purpose of this document is to provide a comprehensive analysis of the requirements that required clarification for Delivery 04 of Student #2 [1]. This analysis aims to clarify ambiguities and address potential issues. Only requirements that required further evaluation have been included.

For each analyzed requirement, an analysis record has been documented, consisting of:

- A verbatim copy of the original requirement for reference.
- An description of the issues or ambiguities encountered.
- An analysis of potential solutions considered, including the advantages and disadvantages of each approach.
- A final decision made regarding the issue.
- A link to the validation performed by the lecturer, confirming correctness and applicability of the modifications.

This report is structured to ensure transparency in the decision-making process and serves as documentation for future reference.

2. Analysis Records

2.1. Recording test suites

This section discusses a behavior that was found in Firefox that affects the recording of test cases, especially those related to hacking attempts. This is related to the following requirements:

"12) Produce a test suite for Requirements #8 and #9."

"33) Produce as a complete test suite as possible for Requirement #29 ensuring that the API is properly mocked."

When conducting formal functional testing on the project, the presence of some strange requests recorded in some of the ".hack" files corresponding to hacking tests was detected. These requests appear even when following the methodology showcased in the lectures. They specially appear in the show endpoints when testing edit features that rely on POST requests.

Upon analyzing the root cause, a student found out that the extra requests were triggered when opening the DevTools of the Firefox browser in a form screen. The lecturer's

confirmed this seemed to be the issue and the student posted an incidence to the Firefox team.

The final conclusion was to try to use a workaround: wait for the application to start up, then open Firefox, then open DevTools, then enter the application.

The validation performed by the lecturer can be found in the following link: [link](#).

3. Conclusions

The analysis recorded in this document provides a detailed evaluation of the requirements for Delivery 04 of Student #2 [1], identifying ambiguities and problems, assessing potential solutions, and making informed decisions to improve the understanding of requirements and progress towards the goal.

Each analysis was recorded in a structured manner, ensuring that the final conclusion was approved by the lecturer. By documenting the original requirements, issues encountered, considered solutions and final decisions, this report serves as a transparent reference of the decision-making process. Additionally, the lecturer's approval serves to validate the final decision made, ensuring correctness and feasibility.

The analysis records provide a clear justification for the decisions made. Moving forward, these decisions will serve as a solid foundation for implementing the requirements as originally intended by the lecturers, ensuring accuracy and minimizing unnecessary errors and confusion.

References

- [1] *02 - Requirements – Student #2*, Enseñanza Virtual, 2025. Available on Enseñanza Virtual in the course inside the Project Statement folder.