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## **DP2 – Analysis Report**

**Group:** C1.027  
**Repository:** <https://github.com/DP2-C1-027/AirNav-Logistics>  
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## **Executive Summary**

This analysis report presents an analysis of key project requirements that require further evaluation to ensure effective implementation. Not all requirements require a detailed analysis, only those that involve significant decisions, technical considerations, or potential challenges are examined in depth.

## **Revision Table**

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| **Revision Number** | **Date** | **Description** |
| 1.0 | 02/17/2025 | Initial version of the document. |
| 1.1 | 03/11/2025 | Added entries related with deliverable D02. |
| 1.2 | 03/29/2025 | Added entries related with deliverable D03. |

## **Introduction**

This document presents the Analysis Report for the DP2 project, developed by Group C1.027. The purpose of this report is to evaluate key project requirements to ensure their effective implementation. While not all requirements require extensive analysis, those that involve significant decisions, technical complexities, or portential challenges are examined in detail.

By conducting this analysis, the team aims to strengthen the overall quality of the project deliverables, mitigate risks associated with requirement misinterpretation, and facilitate smooth project execution. This report is structured as follows: an executive summary outlining the key findings, a revision table documenting updates to the report, the detailed analysis of selected requirements, and final conclusions summarizing key takeaways and proposed adjustments.

## **Content**

1. Instantiate and customise the appropriate starter project so that you can work on this project.  Make sure that the name of your project folder, maven configuration (pom.xml), and database is “Acme-ANS-D〈dd〉”, where “〈dd〉” denotes the deliverable number using two digits. Make sure that you have followed the instructions in the “On Your Deliverables” document to package and deliver your work. This requirement must be fulfilled in this and every other group or individual deliverable for it to be considered satisfied.

This task is crucial because it ensures consistency in the structure of the project and its correct packaging. There may be problems if the name does not follow the specified format exactly, which could affect the automated evaluation or delivery of the project.   
  
We have had several problems in this aspect, from the beginning the name was incorrect and to incorporate this change in all the members implied to modify other related files but through github it became more easy to do.

1. The default language must be English, but Spanish must be supported, as well.  Other mainstream languages are welcome but not required.  This requirement must be met in this and every other group or individual deliverable for it to be considered satisfied.

This requirement implies implementing an internationalization strategy using i18n in the project. It can be complex if is not planned from the beginning, as it affect the user interface. We have not had too much trouble in the implementation of this requirement at the moment due that was related to modifying a couple and minimal files.

1. The system configuration must include the following initial data: a system currency, which must be initialised to “EUR” and a list of accepted currencies, which must be initialised to “EUR”, “USD”, and “GBP”.

The system must allow the entry of amounts in different currencies and show their equivalent in euros without requiring real-time conversion. This simplifies financial management and avoids external service costs. Its main advantage is the standardization of reports and ease of use. However, the absence of automatic conversion can lead to confusion if the data is not presented clearly.

In general, this solution improves administration without additional costs, although it requires accurate validations to avoid errores in the interpretation of values.

1. The default The system must manage data about banned passengers. The system must store the following data: a full name (up to 50 characters), date of birth (in the past), a passport number (pattern “^[A-Z0-9]{6,9}$”), nationality (up to 50 characters), the reason for the ban (up to 255 characters), the date the ban was issued (in the past), and an optional lift date (in the past) to indicate whether the passenger is still banned or if the prohibition has been lifted.

The management of banned passengers is key to airport security. The system must store essential data. Although it increases the administrative involvement, its main advantage is to ensure safer flights and comply with international regulations, provided that rigorous data updating and validation protocols are maintained.

32) For this D03, the requirements have been completed, and therefore, no extensive analysis was required, except for Requirement 32. This particular requirement mandates that money amounts, booleans, and moments must be internationalized when displayed to the user, ensuring that all date and time values are stored internally in GMT format. The requirement also specifies that these elements should be formatted according to the user's local conventions, such as the appropriate currency symbols, boolean representations (like "Yes" or "No"), and date/time formats. The need to store moments in GMT format guarantees consistency across different time zones, ensuring that the system handles time-related data correctly, regardless of the user's location. While this requirement introduces certain complexities, such as handling varying formats for money amounts, translating booleans, and converting times to the correct local time zone, it ultimately enhances the application's ability to serve a global user base. The implementation of this requirement ensures a more intuitive user experience by displaying information in the format that users are familiar with. However, the complexity of managing different time zones and locale-specific formatting does add development and maintenance overhead, as careful attention must be paid to ensure consistency across the entire system. Despite these challenges, fulfilling this requirement improves the scalability of the system, enabling it to be more adaptable to different regions and languages without requiring significant changes to the codebase.

## **Conclusions**

After analyzing the requirements, certain aspects were identified that require adjustments to improve their clarity, consistency and technical feasibility. In addition, inconsistencies were found between certain requirements, which could affect the implementation of the system if they are not properly aligned. Aspected were also identified that require additional validation by the teacher to ensure compliance. The proposed modifications seek to optimize the accuracy of the requirements and facilitate their traceability in future phases of the project.

About tasks related with D02 they provide key functionalities for security and user experience in the system. Prohibited passenger management improves security, but introduces challenges in terms of privacy, maintenance and data validation. Currency management facilitates value entry by users and standardizes reporting in EUR, although it requires validations to avoid confusion and errores in the presentation of amounts.

In D03, key functionalities were implemented to manage airports, airlines, aircraft, services, reviews, system configuration, and dashboards. However, certain aspects require adjustments for clarity, consistency, and technical feasibility. Operations like creating, updating, and disabling entities in airports, airlines, and aircraft require confirmation, which helps prevent errors but needs consistent implementation. The display and promotion of services must balance visibility without overwhelming users. Review management introduces challenges due to the inability to update or delete posts, requiring clear communication with users. Additionally, the system configuration and administrator dashboards must be user-friendly while allowing for updates and monitoring. In conclusion, the work done in D03 is essential for the project, but minor adjustments and validations are needed to ensure optimal functionality, security, and user experience moving forward.

## **Bibliography**

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