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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**

|  |  |  |
| --- | --- | --- |
| **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. |

## **Introduction**

This document presents the Analysis Report for the DP2 project, developed by Group C1.027. The purpose of this report is to evaluate individual 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, I aim 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. Produce an analysis report.

This report is essential to record the decisions taken throughout the development, justifying technical and methodological approaches. It should include clear references to the requirements evaluated, decisions taken and their validation.

This requirement is important to take into account since it will be modified throughout the deliveries.

1. Produce a planning and progress report.

This report requires hard tracking of time and resources to properly estimate budget and progress. Can be complex if an efficient management tool is not used to record and visualize project status. Conflicts within the team must be resolved in a coordinated and effective manner to avoid negative impacts on the evaluation.

This requirement is important to take into account since it will be modified throughout the deliveries.

1. The system must handle flight crew member dashboards with the following indicators:

* The last five destinations to which they have been assigned.
* The number of legs that have an activity log record with an incident severity ranging from 0 up to 3, 4 up to 7, and 8 up to 10.
* The crew members who were assigned with him or her in their last leg.
* Their flight assignments grouped by their statuses.
* The average, minimum, maximum, and standard deviation of the number of flight assignments they had in the last month.

This requirement facilitates operational management and improves the crew experience by providing immediate access to relevant data. However, its implementation involves the integration of multiple data sources and constant updating to ensure accuracy.

Benefits include improved resource planning and greater control over flight allocation. However, its success depends on a clear interface and an efficient architecture to process large volumes of information without affecting system performance.

1. The system is required to provide crew members with information about visa requirements. A web service must be used to populate this entity with information about visa requirements. Thus, the exact data to store depends on the chosen service, and it is the students' responsibility to define them accordingly. It is also the students’ responsibility to find the appropriate service; no implicit or explicit liabilities shall be covered by the University of Seville or their individual affiliates if the students hire pay-per-use services! The students are strongly advised to ensure that the service they choose is free of charge.

This requirement simplifies the planning of international flights, avoiding migration problems for the crew. However, its implementation presents challenges, such as dependence on an external provider, possible API changes and the need to update data regularly.

While it automates visa queries and reduces the administrative burden, a poor choice of service can compromise the reliability of the information. Therefore, it is crucial to select a reliable source and ensure efficient integration within the system.

## **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.

For D02 delivery, both requirements present challenges. The dashboard requires real-time data processing without impacting performance, and the visa information relies on an external service whose reliability must be guaranteed.

## **Bibliography**

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