# **Planning and Progress Report**

**Group:** C1.027  
**Repository:** [AirNav-Logistics](https://github.com/DP2-C1-027/AirNav-Logistics)**Date:** February 15, 2025

### **Group Members:**

1. **Garcia de Tejada Delgado, Jose**
   * Role: Developer
   * Email: jgd@acmeanalytics.com
2. **Peñaloza Friqui, Nora**
   * Role: Developer
   * Email: nora@acmeanalytics.com
3. **Niza Cobo, Manuel Jesús**
   * Role: Manager, Developer
   * Email: manuel@acmeanalytics.com
4. **Gomez Claraco, Nicolas**
   * Role: Developer
   * Email: nicolas@acmeanalytics.com
5. **Campos Diez, Lucia**
   * Role: Tester, Developer
   * Email: lucia@acmeanalytics.com

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## **Executive Summary**

This report seeks to outline the analysis, planning, and current progress of the AirNav-Logistics project, aimed at developing a robust logistics management system for charter flights at airports. It provides a detailed account of the tasks completed, the advancement of key features, and both the estimated and actual budget.

Additionally, it discusses the working methodology, any conflicts that arose during development, and a comparison between the projected and actual costs. The goal is to ensure that the project remains on track, adhering to the planned timeline and budget.

## **Revision Table**

|  |  |  |
| --- | --- | --- |
| **Revision** | **Date** | **Description** |
| 1 | 17/02/2025 | Creation of the analysis, planning, and progress report. |

|  |  |  |
| --- | --- | --- |
| 2 | 11/03/2025 | The analysis, planning, and progress report updated for Delivery 2 |

## **Introduction**

This document provides an overview of the analysis, planning, and progress made in the AirNav-Logistics project, developed by team C1.027. The primary objective of the project is to design a system that helps airports efficiently manage resources for charter flights.

The report is structured to include a detailed breakdown of the tasks completed by the team, a cost analysis, and a summary of the conflicts encountered and resolved throughout the project's development.

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## **Planning Chapter**

### **Tasks Performed:**

**→Individual requirements:**

**Task 1: Implement Assistance Agent Claims and Tracking Logs Data Model**

* **Description: Developed the data model for assistance agents, including fields such as employee code (with regex validation), spoken languages, airline affiliation, start date, optional bio, salary, and photo link. Also implemented the data models for passenger claims and tracking logs, including fields like registration timestamp, passenger email, claim type, resolution status, and tracking log details**
* **Assigned to: Nicolás Gómez (developer)**
* **Planned Time: 4 hours**
* **Actual Time: 3 hours**

**Task 2: Implement Form**

* **Description: Developed dashboards for assistance agents with key indicators such as:**
  + **Ratio of resolved and rejected claims.**
  + **Top three months with the highest number of claims.**
  + **Statistical metrics (average, minimum, maximum, and standard deviation) for logs and claims handled in the last month**
* **Assigned to: Nicolás Gómez (developer)**
* **Planned Time: 1 hour**
* **Actual Time: 1.5 hours**

**Task 3: Integrate External Flight Status API**

* **Description: Researched and integrated a data model for a free external API to retrieve flight status and delay information for assistance agents.**
* **Assigned to: Nicolás Gómez (developer)**
* **Planned Time: 3 hours**
* **Actual Time: 5 hours**

**Task 4: Create Test Data for Assistance Agents**

* **Description: Generated sample data for testing, including two assistance agent accounts with credentials “agent1/agent1” and “agent2/agent2”, and an additional account “manager3/manager3” with no associated data except for the profile. Also included data for all the entities implemented before.**
* **Assigned to: Nicolás Gómez (developer)**
* **Planned Time: 1 hour**
* **Actual Time: 3 hour**

**Task 5: Set up the workspace for the new Version of the Framework**

* **Description: Configured the workspace for the project.**
* **Assigned to: Nicolás Gómez (developer)**
* **Planned Time: 3 hours**
* **Actual Time: 2 hours**

**Task 6: Attend classes**

* **Description: Attended 6 classes, each lasting 2 hours.**
* **Assigned to: Nicolás Gómez (developer)**
* **Planned Time: 12 hours**
* **Actual Time: 12 hours**

**→Group requirements:**

**Task 7: Populate the database for Airport Airline Aircraft Service and Review**

* **Description:** **: Generated sample data for testing, including two admin accounts with credentials “admin1/admin1” and “admin2/admin2”. Also included data for test purpose for the entities Airport Airline Aircraft Service and Review.**
* **Assigned to:** Nicolás Gómez (developer)
* **Planned Time:** 5 hours
* **Actual Time:** 8 hours

**Task 8: Implement Banned Passenger Data Management**

* **Description**: Designed and implemented the data model for banned passengers, including fields such as full name (up to 50 characters), date of birth, passport number (with regex validation), nationality, reason for the ban, ban issuance date, and optional lift date.
* **Assigned to**: Nicolás Gómez (developer)
* **Planned Time**: 2 hours
* **Actual Time**: 1 hour

**Task 9: Attending to group meetings**

* **Description**: This task involved actively participating in group meetings to discuss and collaborate on the design and implementation of the data model.
* **Assigned to**: Nicolás Gómez (developer)
* **Planned Time**: 2 hours
* **Actual Time**: 2 hours

**Task 10: Create a UML for the entities**

* **Description**: The task involves designing a uml diagram that represents all entities and their relationships within the system.
* **Assigned to**: Nicolás Gómez (developer)
* **Planned Time**: 1 hours
* **Actual Time**: 1 hour

**Screenshots of Development Stages**

**1. Initial Task Definition in the "To Do" Lane**

Screenshot showcasing the tasks that were initially defined in the "To Do" lane. All tasks were outlined and assigned at the beginning.

**A screenshot of a computer

AI-generated content may be incorrect.**

#### **2. Midway Through the Delivery: All Types of Tasks in Various Lanes**

Screenshot of the task board showing all kinds of tasks in various lanes, including regular tasks, quality-assurance tasks, and revisions as required.

A screenshot of a computer

AI-generated content may be incorrect.

#### **3. Final Task Completion in the "Done" Lane**

Screenshot of all completed tasks in the "Done" lane, indicating the successful completion of all task.

A screenshot of a computer screen

AI-generated content may be incorrect.

These screenshots illustrate the adherence to the working methodology defined in “L01/S03 - Working Together,” ensuring transparency and collaborative task management.

**Estimated Budget:**

**Estimated Budget:**

**Estimated Hours by Role:**

* **Modify the Anonymous Menu: 0.5 hours**
* **Provide a Link to the GitHub Planning Dashboard: 0.5 hours**
* **Planning and Progress Report: 2 hours**
* **Set Up the Workspace: 3 hours**
* **Attend Classes: 12 hours**
* **Change Banner Text, Banner, Logo, and Favicon: 2 hours**
* **Customize the Fragments (Banner, Footer, Company, etc.): 2 hours**
* **Implement Assistance Agent Claims and Tracking Logs Data Model: 3 hours**
* **Implement Form: 1.5 hours**
* **Integrate External Flight Status API: 5 hours**
* **Create Test Data for Assistance Agents: 3 hours**
* **Populate the Database for Airport, Airline, Aircraft, Service, and Review: 8 hours**
* **Implement Banned Passenger Data Management: 1 hour**
* **Attending to group meetings: 2 hour**
* **Create a UML for the entities: 1hour**

**Total Estimated Hours for Nicolás Gómez Claraco:  
33 hours**

**Cost per Role:**

* **Developer (Nicolás Gómez Claraco): €20/hour**
* **Total Cost: 33 hours × €20 = €660**

**Amortization:**

**The amortization has been calculated using the linear method over a period of three years. Since all software used in this project is free, the annual amortization cost for infrastructure is €0.00.**

**Total Estimated Cost:**

* **Developer: €660**
* **Amortization: €0.00**
* **Total Estimated: €660.00**

**Progress Chapter**

#### **Progress Records**

|  |  |  |  |
| --- | --- | --- | --- |
| **Team Member** | **Performance Indicators** | **Value** | **Description** |
| Nicolás Gómez | Task Completion | Good | All tasks completed on time and within the estimated time. |

### **Reward/Admonishment**

No formal reward was applied, but Nicolás's efficient completion of tasks is noted as a positive contribution to the team's success.

### **Conflicts and Resolution**

No major conflicts arose during development. The team members worked collaboratively to address any technical challenges independently.

#### **Cost Comparison**

|  |  |  |
| --- | --- | --- |
| **Cost Component** | **Estimated Cost** | **Real Cost** |
| **Developer** | **€660** | **€750** |
| **Amortization** | **€0.00** | **€0.00** |
| **Total Cost** | **€660** | **€750** |

### The real costs are approximately **15%** higher than the estimated costs, showing a overrun compared to the initial budget.

## **Conclusions**

The AirNav-Logistics project is progressing well, with all tasks completed successfully. However, a 15% budget overrun occurred due to underestimating the complexity of tasks like API integration and data modeling.

Despite the overrun, the project is on track, with improvements in functionality and user experience. Careful planning will ensure continued success.

## **Bibliography**

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