# **Planning and Progress Report**

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

### **Group Members:**

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## **Executive Summary**

This report aims to present the analysis, planning, and progress of the *AirNav-Logistics* project, which is being developed to create a comprehensive logistics management system for charter flights at airports. The document details the completed tasks, the progress of features, and the estimated and actual budget. It also covers the working methodology, conflicts encountered during development, and a comparison of the estimated and real costs. The purpose is to ensure the project is progressing according to plan, within the allocated time and budget.

## **Revision Table**

|  |  |  |
| --- | --- | --- |
| **Revision** | **Date** | **Description** |
| 1 | 19/02/2025 | Creation of the analysis, planning, and progress report. |
| 2 | 13/03/2025 | Update for deliverable 02 |

**Introduction**

This report outlines the analysis, planning, and progress achieved in the *AirNav-Logistics* project developed by group C1.027. The goal of this project is to create a system that will assist airports in managing resources for charter flights. The report is divided into two chapters: planning and progress, which include a detailed description of the assigned tasks, their execution, associated costs, and managed conflicts.

The structure of the report includes a breakdown of the tasks performed by each team member, an analysis of the costs, and a summary of the conflicts resolved during the project’s development.

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## **D01**

## **Planning Chapter**

### **Tasks Performed:**

**→Individual requirements:**

**Task 1: Modify the anonymous menu**

* **Description:** The anonymous menu was modified to display an option that redirects the browser to the homepage of a favorite website, with the title formatted as: “〈id-number〉: 〈surname〉, 〈name〉”.
* **Assigned to:** García de Tejada Delgado, José(developer)
* **Planned Time:** 10 minutes
* **Actual Time:** 5 minutes

**Task 2: Provide a link to the GitHub planning dashboard**

* **Description:** A link was provided to the planning dashboard for reviewing the task statuses and project schedule.
* **Assigned to:** García de Tejada Delgado, José (developer)
* **Planned Time:** 15 minutes
* **Actual Time:** 15 minutes

**Task 3: Planning and Progress Report**

* **Description**: Created the planning and progress report with all the required details.
* **Assigned to:** García de Tejada Delgado, José (developer)
* **Planned Time**: 2 hours
* **Actual Time**: 1 hour 30 minutes

**Task 4: Analysis Report**

* **Description**: Produced the analysis report with the corresponding logs.
* **Assigned to:** García de Tejada Delgado, José (developer)
* **Planned Time**: 2 hours
* **Actual Time**: 2 hours

**→Group requirements:**

**Task 21: Produce a report on what you knew about the architecture of a WIS before this subject**

* **Description**: Produced a report on previous knowledge of Web Information Systems
* **Assigned to:** García de Tejada Delgado, José (developer)
* **Planned Time**: 1 hour
* **Actual Time**: 1 hour 30 minutes

**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.

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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 deliverables.

A screenshot of a computer

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 hours by role:**

* **Modify the Anonymous Menu**: 10 minutes
* **Provide a Link to the GitHub Planning Dashboard**. 15 minutes
* **Planning and Progress Report**: 2 hours
* **Analysis Report**: 2 hours
* **Report on previous knowledge about WIS:** 1 hour

**Total Estimated Hours for García de Tejada Delgado, José:**  
**5.5 hours**

**Cost per role:**

**Developer (García de Tejada Delgado, José): €20/hour**  
**5.5 hours x €20 = €110**

**Amortization:**

* The amortization has been calculated using a linear method over three years, with an annual cost of €20.00 for the infrastructure used.

**Total Estimated Cost:**

* **Developer: €110**
* **Amortization: €20.00**
* **Total Estimated: €130.00**

**Progress Chapter**

#### **Progress Records**

|  |  |  |  |
| --- | --- | --- | --- |
| **Team Member** | **Performance Indicators** | **Value** | **Description** |
| García de Tejada Delgado, José | Task Completion | Good | All tasks completed on time and within the estimated time. |

### **Reward/Admonishment**

No formal reward was applied as José’s performance was within expectations

### **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 (García de Tejada Delgado, José)** | **€110** | **€105** |
| **Amortization** | **€20.00** | **€20.00** |
| **Total Cost** | **€130.00** | **€125.00** |

### The real cost goes almost perfectly aligns with the estimated cost, confirming that the project has remained reasonably within budget.

## **Conclusions**

The AirNav-Logistics project is progressing smoothly, with all tasks completed within budget and timeframe. The modifications have improved the project and its documentation.

## **Bibliography**

Intentionally blank.

## **D02**

## **Planning Chapter**

### **Tasks Performed:**

**→Individual requirements:**

**Task 1: Airline manager data model**

1. **Description:** **Airline managers** are the people responsible for managing flights. The system must handle the following information about **managers**: an **identifier number** (unique, pattern "^[A-Z]{2-3}\d{6}$", where the first two or three letters correspond to their initials), **years of experience** in the airline, his or her **date of birth** and an optional link to a **picture** that must be stored somewhere else.

* **Assigned to:** García de Tejada Delgado, José(developer)
* **Planned Time:** 2 hours
* **Actual Time:** 2 hours

**Task 2: Flight data model**

1. **Description:** A **flight** is a scheduled journey made by airlines to transport passengers between two locations. The system must store the following data about them: a **tag** that highlights some feature of the flight such as "the fastest", "the cheapest" (up to 50 characters), an **indication** on whether it requires self-transfer or not, a **cost**, an optional **description** (up to 255 characters). It also stores information that comes from its **legs**, namely: a **scheduled departure** and a **scheduled arrival** that depends on the first scheduled departure moment of the first leg and the scheduled arrival moment of the last leg, the origin and destination **cities** that comes from the city of the airports to which first and last leg refers to, and finally, the **number of layovers**.

* **Assigned to:** García de Tejada Delgado, José (developer)
* **Planned Time:** 2 hours
* **Actual Time:** 3 hours

**Task 3: Leg data model**

1. **Description**: A flight aggregates several **legs**. A leg represents an individual segment of a flight, typically corresponding to layovers or connections. The system must store the following data for each leg: a unique **flight number** (composed of the airline's IATA code followed by four digits, unique), a **scheduled departure** and a **scheduled arrival**, a **duration** in hours, a **status** ("ON TIME", "DELAYED", "CANCELLED", "LANDED"). Additionally, each leg must track the **departure** and **arrival** **airports,** as well as the **aircraft** that will be deployed for the journey.

* **Assigned to:** García de Tejada Delgado, José (developer)
* **Planned Time**: 2 hours
* **Actual Time**: 1 hour 30 minutes

**Task 4: Sample data**

1. **Description**: Produce assorted sample data to test your application informally. The data must include two **manager** accounts with credentials “**manager1**/**manager1**” and “**manager2**/**manager2**”. Create an additional manager account with credentials “**manager3/manager3”** that represents a manager with no associated data, except for his or her profile.

* **Assigned to:** García de Tejada Delgado, José (developer)
* **Planned Time**: 1 hour
* **Actual Time**: 2 hours

**Task 5: Provide github dashboard link**

1. **Description**: Provide a link to your planning dashboard in GitHub to review the tasks, their current status, and your schedule.

* **Assigned to:** García de Tejada Delgado, José (developer)
* **Planned Time**: 5 minutes
* **Actual Time**: 5 minutes

**Task 6: Airline manager dashboard**

1. The system must handle **manager** **dashboards** with the following **indicators**:

* The ranking the manager achieves based on their years of experience. The more years of experience, the higher the position in the ranking.
* The number of years to retire, assuming that they retire at 65.
* Ratio of on-time and delayed legs.
* The most popular and less popular airports within their flights. An airport is popular as long as it has been an origin or destination for many flights.
* The number of legs of their flights grouped by their status.
* The average, minimum, maximum, and standard deviation of the cost of their flights.
* **Assigned to:** García de Tejada Delgado, José (developer)
* **Planned Time**: 1 hour
* **Actual Time**: 30 minutes

**Task 7:** UML

1. **Description**: Produce a UML domain model regarding the information requirements.

* **Assigned to:** García de Tejada Delgado, José (developer)
* **Planned Time**: 2 hours
* **Actual Time**: 1 hour

**Task 8: Analysis report**

1. **Description**: Produce an analysis report.

* **Assigned to:** García de Tejada Delgado, José (developer)
* **Planned Time**: 30 minutes
* **Actual Time**: 30 minutes

**Task 9: Planning and progress report**

1. **Description**: Produce a planning and progress report.

* **Assigned to:** García de Tejada Delgado, José (developer)
* **Planned Time**: 30 minutes
* **Actual Time**: 30 minutes

**→Group requirements:**

**Task 10: Airline data model**

1. **Description**: An **airline** is a company that provides air transportation services for passengers by operating flights between different airports. The system must store a **name** (up to 50 characters), an **IATA code** (a unique three-uppercase-letter identifier, where the last letter is typically an “X”), a **website**, a **type** ("LUXURY", "STANDARD", "LOW-COST"), a **foundation moment** (in the past), and optional **email address** and **phone number** (pattern "^\+?\d{6,15}$").

* **Assigned to:** García de Tejada Delgado, José (developer)
* **Planned Time**: 1 hour
* **Actual Time**: 30 minutes

**Task 11: Administrator dashboards**

1. **Description**: The system must handle **administrator** **dashboards** with the following **indicators**:

* Total number of airports grouped by their operational scope.
* Number of airlines grouped by their type.
* Ratio of airlines with both an email address and a phone number.
* Ratios of active and non-active aircrafts.
* Ratio of reviews with a score above 5.00.
* Count, average, minimum, maximum, and standard deviation of the number of reviews posted over the last 10 weeks.
* **Assigned to:** García de Tejada Delgado, José (developer)
* **Planned Time**: 30 minutes
* **Actual Time**: 30 minutes

**Task 12: Money exchanges**

1. **Description**: The system must show money amounts as they are entered by the users, but also their corresponding **money exchanges** according to the system currency. It is the students’ responsibility to find the appropriate exchange-rate service; no implicit or explicit liabilities shall be covered by the University of Seville or their individual affiliates if the students contract pay-per-use services! This requirement must be fulfilled in this and every other group or individual deliverable for it to be considered satisfied.

* **Assigned to:** García de Tejada Delgado, José (developer)
* **Planned Time**: 2 hours
* **Actual Time**: 30 minutes

**Screenshots of Development Stages**

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

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**Estimated Budget**

**Estimated hours by role:**

* **Airline manager data model**: 2 hours
* **Flight data model**: 2 hours
* **Leg data model**: 2 hours
* **Sample data**: 1 hour
* **Provide github dashboard link**: 5 minutes
* **Airline manager dashboard**. 1 hour
* **UML**: 2 hours
* **Analysis report**: 30 minutes
* **Planning and progress report**: 30 minutes
* **Airline data model**: 1 hour
* **Administrator dashboards**: 30 minutes
* **Money exchanges**: 2 hours

**Total Estimated Hours for García de Tejada Delgado, José:**  
**14 hours 35 minutes**

**Cost per role:**

**Developer (García de Tejada Delgado, José): €20/hour**  
**14.58 hours x €20 = €291.6**

**Amortization:**

* The amortization has been calculated using a linear method over three years, with an annual cost of €20.00 for the infrastructure used.

**Total Estimated Cost:**

* **Developer: €291.6**
* **Amortization: €20**
* **Total Estimated: €311.6**

**Progress Chapter**

#### **Progress Records**

|  |  |  |  |
| --- | --- | --- | --- |
| **Team Member** | **Performance Indicators** | **Value** | **Description** |
| García de Tejada Delgado, José | Task Completion | Good | All tasks completed on time and within the estimated time. |

### **Reward/Admonishment**

No formal reward was applied as José’s performance was within expectations

### **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 (García de Tejada Delgado, José)** | **€291.6** | **€251.6** |
| **Amortization** | **€20.00** | **€20.00** |
| **Total Cost** | **€311.6** | **€271.6** |

### The real cost goes almost perfectly aligns with the estimated cost, confirming that the project has remained reasonably within budget.

## **Conclusions**

The AirNav-Logistics project is progressing smoothly, with all tasks completed within budget and timeframe. The modifications have improved the project and its documentation.

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