Un dibujo con letras

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ANALYSIS REPORT

Repository: https://github.com/C1-036/Acme-ANS-D02

March 4th, 2025

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**1. Executive Summary**

This report is written with the intention of presenting the alternatives considered by student 2 to meet the requirements of D02. In this deliverable the requirements started to be more complex so the analysis started to be important, that's why this document started to be more long.

**2. Revision Table**

|  |  |  |
| --- | --- | --- |
| Revision number | Date | Description |
| 1 | 04/03/2025 | The report was created |
|  |  |  |

**3. Introduction**

Next, we will explain the tasks I had as a student 2 and the analysis we conducted to successfully complete all of them.

**4. Contents**

**4.1 Analysis Log**

**Customers** are the people who purchase flights. The system must store the following data about them: an **identifier** (unique, pattern "^[A-Z]{2-3}\d{6}$", where the first two or three letters correspond to their initials), a **phone number** (pattern "^\+?\d{6,15}$"), a **physical address** (up to 255 characters), plus a **city** and a **country** (both up to 50 characters). Optionally, customers may have some **earned points** (up to 500k points).

A **booking** is a reservation made by a **customer** to purchase a **flight**, guaranteeing some seats on a specific itinerary and associating some **passengers**' details with the trip. The system must manage the following information for each **booking**: a **locator code** (unique, pattern "^[A-Z0-9]{6,8}$"), a **purchase moment** (in the past), a **travel** **class** ("ECONOMY", BUSINESS"), and a **price**. Optionally, the system should record the **last nibble** of the credit card used for payment.

3) A **passenger** is an individual who takes a flight and he or she must be registered in the corresponding booking. The system must store the following data about passengers: a **full name** (shorter than 256 characters), an **email**, a **passport number** (pattern “^[A-Z0-9]{6,9}$”), a **date of birth**, and, optionally, his or her **special needs** (shorter than 51 characters).

These three requirements correspond to two entities and a role. The key to implementing these requirements is to thoroughly understand the annotations that need to be used and were explained in theory. Therefore, by primarily referring to the slides, the implementation was straightforward. This requirement was marked as valid by the lecturer.

**5. Conclusions**

In conclusion, as the requirements became more complex to implement, we confirmed the fundamental need for a thorough analysis of the requirements. This not only facilitates their implementation but also prevents future problems and errors.

**6. Bibliography**

Does not apply