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**1. Executive Summary**

*This report is intended to present the alternatives considered by Student 3 to meet the requirements of D02. Unlike D01, this deliverable involved more tasks, each with a higher level of complexity. As a result, a more thorough analysis of possible approaches was carried out to ensure that the requirements were met effectively.*

**2. Revision Table**

| Revision number | Date | Description |
| --- | --- | --- |
| 1 | 08/03/2025 | The report was created |
|  |  |  |

**3. Introduction**

This report is intended to assess the various approaches and alternatives examined to fulfill the project's deliverable requirements. It offers a thorough review of the decision-making process, outlining the advantages and drawbacks of the solutions considered. Additionally, it details the measures taken to achieve an optimal and efficient implementation, emphasizing the main factors and obstacles encountered along the way.

**4. Contents  
4.1 Analysis Log**  
***Task 3:*** *Implement the flight crew members entity, storing the following data: an employee code (unique, pattern "^[A-Z]{2-3}\d{6}$", where the first two or three letters correspond to their initials), a phone number (pattern "^\+?\d{6,15}$"), their language skills (up to 255 characters), their availability status ("AVAILABLE", "ON VACATION", "ON LEAVE"), the airline they are working for, and their salary. Optionally, the system may store his or her years of experience.*

*For this task, the FlightCrewMembers entity was implemented with attributes such as the employee code with a specific pattern, phone number, language skills, availability status, airline, salary, and optionally years of experience. Validations were defined to ensure that values follow the required formats (e.g., employeeCode)*

***Task 4:*** *Develop the flight assignment system, where each assignment specifies the flight crew's duty in that leg ("PILOT", "CO-PILOT", "LEAD ATTENDANT", "CABIN ATTENDANT"), the moment of the last update (in the past), the current status of the assignment ("CONFIRMED", "PENDING", or "CANCELLED"), and some remarks (up to 255 characters), if necessary.*

*I developed the flightAssignment entity, allowing the specification of the crew's duty in each flight leg, last update timestamp, assignment status, and optional remarks.*

***Task 5:*** *Implement an activity log system that records incidents that occur during a flight. The data to store includes: a registration moment (in the past), a type of incident (up to 50 characters) a description (up to 255 characters), and a severity level (ranging from 0 to 10, where 0 indicates no issue and 10 represents a highly critical situation).*

*I implemented the activityLog entity to record flight incidents, storing information such as the registration timestamp, incident type, description, and severity level (ranging from 0 to 10).*

***Task 6:*** *Generate sample data for informal testing of the application. The data should include four flight crew member accounts with credentials “memberX/memberX” with X ranging from 1 to 4 (and different duties each). Create a fifth member account member/member, representing a new member with no flight assignment.*

*Generated sample data for informal testing, creating four flight crew member accounts with credentials “memberX/memberX” (where X ranges from 1 to 4, each with a different duty) and a fifth account, “member/member,” representing a new crew member with no flight assignment.*

***Task 15:***Develop a flight crew member dashboard with key performance indicators, such as the last five destinations assigned, the number of legs with incident, the crew members who were assigned with, the crew members flight assignment grouped by their statuses and statistical data of the number of flight assignments in the last month.

Developed a flight crew member dashboard, displaying key performance indicators such as the last five assigned destinations, the number of flight legs with incidents, crew members they flew with, flight assignments grouped by status, and statistical data on assignments from the past month.

***Task 16:*** *Produce a UML domain model regarding the information requirements*Task 16 was focused on creating a UML diagram.

***Task 26:*** *Integrate a web service to retrieve and store flight status or delay information. This information will help assistance agents handle claims more effectively. The exact data to store depends on the chosen service, and it is the student's responsibility to define them accordingly. It is also the student’s responsibility to find the appropriate service, and they are advised to ensure that the service they choose is free of charge.*

Task 26 has not been completed yet.

***Task 7:*** *Provide a link to your planning dashboard.* ***Task 27:*** *Produce an analysis report.*

***Task 28:*** *Produce a planning and progress report.*

Tasks 7, 27, and 28 are primarily dedicated to documentation. Their purpose is to clearly and precisely record the implemented processes, decisions, and functionalities, ensuring that all essential information is well-structured and readily available for future reference or audits.

**5. Conclusions**

Does not apply

**6. Bibliography**

Does not apply