Workgroup C1.067

ANALYSIS REPORT – D03

26/05/25

Tudor Cristian Lacatus Cosma [- ionlac@alum.us.es](mailto:-%20ionlac@alum.us.es)

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Executive Summary:

This report outlines the analyses performed to ensure a clear understanding and proper implementation of specific individual requirements, particularly in relation to Student#2. During the review of the requirements for this delivery, it became evident that one of them needed further examination, primarily because some aspects of its definition were unclear.

Revision Table

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| --- | --- | --- |
| Revision Number | Date | Description |
| 1.0 | 26/05/2025 | First version of the analysis report |
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# INTRODUCTION

This report details the analysis of a specific ambiguity encountered within the project requirements, particularly concerning the "purchase moment" attribute of a booking. The initial statement of the requirement lacked explicit clarity on when this moment should be calculated and if it could be updated. This ambiguity was identified as a potential point of inconsistency in the system's behavior and required further investigation.

The following sections will outline the specific requirement in question, the alternatives considered, the communication with the client, and the final conclusions drawn to ensure a robust and unambiguous implementation.

# REQUIREMENT TO BE ANALYZED

**Information Requirement 4: Booking Data**

* Verbatim copy of the requirement: “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}"),apurchasemoment(inthepast),atravelclass("ECONOMY",BUSINESS"),andaprice.Optionally,thesystemshouldrecordthelastnibbleofthecreditcardusedforpayment.”
* Ambiguity**:** While it states "purchase moment (in the past)," it does not specify *when* this moment is calculated or if it can be updated.

**Functional Requirements 8: Operations by customers on bookings**

Verbatim copy of the requirement: Operations by **customers** on **bookings**:

* List their bookings.
* Show the details of their bookings and the associated passengers, if any.
* Create or update their bookings. Bookings can be updated as long as they have not been published. A booking can be published only when the last credit card nibble has been stored.

After analyzing the situation and reviewing the relevant discussion thread, a practical solution emerged: the purchase moment should be computed every time an action is executed, specifically during creation, updates, or publication of a booking. This approach makes logical sense, as the purchase moment reflects the actual time a booking is finalized or significantly altered. It also helps prevent potential attempts to manipulate the purchase date, ensuring data integrity.

[Link to the thread](https://ev.us.es/webapps/discussionboard/do/message?action=list_messages&course_id=_89154_1&nav=discussion_board&conf_id=_426211_1&forum_id=_253522_1&message_id=_468094_1)

# CONCLUSIONS

The analysis presented in this document provides a thorough evaluation of the ambiguity surrounding the "purchase moment" requirement. By actively seeking clarification from the client (professor) and considering various alternatives, we have arrived at a clear and justifiable implementation strategy.

The resolution to update the "purchase moment" with each valid update or publication of a booking ensures consistency with the "in the past" constraint while also accommodating the dynamic nature of booking management (creation, update, publish). This approach aligns with the professor's flexibility regarding valid interpretations during the analysis phase.

This documented analysis and resolution provide a solid foundation for the development phase, minimizing potential misunderstandings and ensuring that the implementation of the "purchase moment" accurately reflects the intended behavior of the system.

# BIBLIOGRAPHY

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