# Requirements – Student #2

Please, fill in the following form, make sure that you have ticked the requirements that you consider fulfilled, save this document, **and attach it in its original format (.docx)** to every deliverable. Regarding your ID, please keep only four random digits and mask the others using an asterisk. **Please, note that this document must be edited with the desktop version of Word since the web version does not properly support forms.** Attaching this document entails that you are the authors of the work delivered, you have not cheated in any way, and you have read and understood the information delivered regarding the subject, with a special emphasis on the methodological guidelines and how your work is going to be graded. Make sure that your project works well with the latest version of the development framework.

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| --- |
| **Group:** C3.021 |
| **Repository:** https://github.com/virmesper/Acme-ANS-C3 |
| **Student #2**  **ID Number:** \*\*\*\*3869\*  **UVUS:**  virmesper  **Name:**  Mesa Pérez, Virginia  **Roles:**  Manager, Desarrollador, tester |
| **Date:** Sevilla Octubre 16,2025 |

# MANDATORY Deliverable D01: introduction

## Information requirements

Intentionally blank.

## Functional requirements

1. Modify the anonymous menu so that it shows an option that takes the browser to the home page of your favourite web site. The title must read as follows: “〈id-number〉: 〈surname〉, 〈name〉”, where “〈id-number〉” denotes your DNI, NIE, or passport number, “〈surname〉” denotes your surname/s, and “〈name〉” denotes your name/s.

X

## Non-functional requirements

Intentionally blank.

## Testing requirements

Intentionally blank.

## Managerial requirements

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

X

# MANDATORY Deliverable D02: data models

## Information requirements

1. **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).

X

1. 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.

X

1. 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).

X

## Functional requirements

Intentionally blank.

## Non-functional requirements

Intentionally blank.

## Testing requirements

1. Produce assorted sample data to test your application informally. The data must include two **customer** accounts with credentials “**customer1**/**customer1**” and “**customer2**/**customer2**”. Create an additional customer account with credentials “**customer3/ customer3”** that represents a customer with only profile data.

X

## Managerial requirements

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

X

# MANDATORY Deliverable D03: implementing features

## Information requirements

Intentionally blank.

## Functional requirements

1. 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.

X Logueado como customer3 al intentar crear un booking con los datos vacíos se lanza un error 500.

Para solucionar este error he hecho lo siguiente:

-He modificado casi al completo el código de CustomerBookingCreateService ya que no era el único error que he encontrado, modificando el método authorise, validate y bind.  
  
**2nd Call**  
  
El error persiste, lanzando un error 500 al crear un booking con datos vacíos.

SOLUCIÓN TERCERA CONVOCATORIA:

- Para solucionar este error he cambiado el código del método validate de CustomerBookingCreateService.java ya que mi método anterior estaba ejecutando una consulta de unicidad, aunque el campo locatorCode venga vacío. Con datos vacíos es null y la query se invoca con :locatorCode = null, lo que provoca una excepción interna HTTP 500.

Mi código ha quedado de la siguiente manera:

Interfaz de usuario gráfica, Texto, Aplicación

El contenido generado por IA puede ser incorrecto.

De esta manera, si el usuario envía el formulario vacío, las anotaciones del entity (@Mandatory, etc.) añadirán errores y no pasaremos por la consulta de unicidad. Y si el usuario rellena locatorCode, entonces sí comprobamos que no esté duplicado.

-Por otro lado para evitar un error 500 Access is not authorised, en mi Código actual, esto denegando el acceso si los campos vienen vacíos por lo que he cambiado el método authorise quedando de la siguiente manera:

Captura de pantalla de un celular

El contenido generado por IA puede ser incorrecto.

1. Operations by **customers** on **passengers**:

* List the passengers in their bookings.
* Show the details of their passengers.
* Create a passenger and record the information related to that passenger.
* Update a passenger as long as it has not been published.

X Es posible realizar GET hacking en el comando créate de la entidad booking-record.

Para solucionar este error he hecho lo siguiente:

-He añadido validaciones al método authorise de CustomerBookingRecordCreateService para que no permita modificar ni la booking ni los passengers evitando así la posibilidade de hacer post hacking y get hacking.   
  
**2nd Call**

Crear un Passenger en el listado de Passenger de un claim no asocia el Passenger. Además, no hay manera de asociar las dos entidades.

SOLUCIÓN TERCERA CONVOCATORIA:

El error es que al acceder al listado de pasajeros de una booking y crear un pasajero, este se creaba y se asociaba al customer que lo crea, pero no se asociaba a la booking, Para solucionarlo:

he propagado el bookingId desde la lista al formulario y al POST (JSP: botón con ?bookingId=${bookingId} y <input type="hidden" ...> condicional).

En el CustomerPassengerCreateService leo bookingId como Integer (opcional), verifico que la booking sea del customer y, tras guardar el passenger, creo el **BookingRecord** (booking ↔ passenger) y mantengo el bookingId con addGlobal.

Resultado: si se crea desde el listado de una booking, el Passenger queda vinculado y aparece en ese listado; si se crea desde el listado general, se guarda sin enlace y sin errores.

## Non-functional requirements

Intentionally blank.

## Testing requirements

Intentionally blank.

## Managerial requirements

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

X   
No es posible visualizarlo.

SOLUCIÓN TERCERA CONVOCATORIA:

Se ha añadido un documento de texto Dashboard en reports >> Student#2 >>> C3

Con el siguiente contenido: <https://github.com/users/virmesper/projects/7>

# MANDATORY Deliverable D04: formal testing

## Information requirements

1. Create appropriate indices for your entities, if required.

X

## Functional requirements

Intentionally blank.

## Non-functional requirements

Intentionally blank.

## Testing requirements

1. Produce a test suite for Requirements #8 and #9.

X

## Managerial requirements

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

X

1. Produce a testing report.

X

TERCERA CONVOCATORIA:

Se ha realizado un nuevo testing report ya que se ha cambaido el Código y los tests de las entidades

# SUPPLEMENTARY I Deliverable D01: introduction

## Information requirements

Intentionally blank.

## Functional requirements

Intentionally blank.

## Non-functional requirements

Intentionally blank.

## Testing requirements

Intentionally blank.

## Managerial requirements

Intentionally blank.

# SUPPLEMENTARY I Deliverable D02: data models

## Information requirements

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

* The last five destinations.
* The money spent in bookings during the last year.
* Their number of bookings grouped by travel class.
* Count, average, minimum, maximum, and standard deviation of the cost of their bookings in the last five years.
* Count, average, minimum, maximum, and standard deviation of the number of passengers in their bookings.

X

## Functional requirements

Intentionally blank.

## Non-functional requirements

Intentionally blank.

## Testing requirements

Intentionally blank.

## Managerial requirements

1. Produce a UML domain model regarding the information requirements.

X

# SUPPLEMENTARY I Deliverable D03: implementing features

## Information requirements

Intentionally blank.

## Functional requirements

1. Operations by **anonymous principals** on user **accounts**:

* Sign up to the system and become a customer.

X

1. Operations by **customers** on user **accounts**:

* Update their profiles.

X

1. Operations by **administrators** on **bookings**:

* List the bookings in the system that are published.
* Show the details of the bookings (including the passengers).

X

1. Operations by **customer** on **dashboards**:

* Show their customer dashboards.

X

## Non-functional requirements

Intentionally blank.

## Testing requirements

Intentionally blank.

## Managerial requirements

1. Provide a link to a video in which you informally test requirement #8 and #9. Videos should not exceed 10 minutes in length and must be stored at the USE's facilities.

X

# SUPPLEMENTARY I Deliverable D04: formal testing

## Information requirements

Intentionally blank.

## Functional requirements

Intentionally blank.

## Non-functional requirements

Intentionally blank.

## Testing requirements

Intentionally blank.

## Managerial requirements

1. Perform five mutations in your code and report on the results.

X

## Managerial requirements

1. Produce a lint report.

X

# SUPPLEMENTARY II Deliverable D01: introduction

## Information requirements

Intentionally blank.

## Functional requirements

Intentionally blank.

## Non-functional requirements

Intentionally blank.

## Testing requirements

Intentionally blank.

## Managerial requirements

1. Produce an analysis report.

X

1. Produce a planning and progress report.

X

# SUPPLEMENTARY II Deliverable D02: data models

## Information requirements

1. The system must include a board to recommend something in the city and/or country of a given airport. **Recommendations** can be about experiences, activities, restaurants, accommodation or any other thing that a person may find interesting at the destination. A web service must be used to populate this entity with information about recommendations. Thus, the exact data to store depends on the chosen service, and it is the students' responsibility to define them accordingly. It is also the students’ responsibility to find the appropriate 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!  The students are strongly advised to ensure that the service they choose is free of charge.

X

## Functional requirements

Intentionally blank.

## Non-functional requirements

Intentionally blank.

## Testing requirements

Intentionally blank.

## Managerial requirements

1. Produce an analysis report.

X

1. Produce a planning and progress report.

X

# SUPPLEMENTARY II Deliverable D03: implementing features

## Information requirements

Intentionally blank.

## Functional requirements

1. Operations by **customers** on **recommendations**:

* List recommendations related to final destinations in their bookings.

X

1. Operations by **administrators** on **recommendations**:

* Populate the database with recommendations somehow related to locations (e.g., related to cities or countries).

X

## Non-functional requirements

Intentionally blank.

## Testing requirements

Intentionally blank.

## Managerial requirements

1. Produce an analysis report.

1. Produce a planning and progress report.

# SUPPLEMENTARY II Deliverable D04: formal testing

## Information requirements

Intentionally blank.

## Functional requirements

Intentionally blank.

## Non-functional requirements

Intentionally blank.

## Testing requirements

1. Produce as a complete test suite as possible for Requirement #29 ensuring that the API is properly mocked.

## Managerial requirements

1. Produce an analysis report.

1. Produce a planning and progress report.