# 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:** C1.023 |
| **Repository:** https://github.com/ManunGar/Acme-ANS-D01 |
| **Student #2**  **ID Number:** 7769\*\*\*\*  **UVUS:**  Juamorrio  **Name:**  Moreno Ríos, Juan  **Roles:**  Analyst, Developer, Tester |
| **Date:** Seville March 13, 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 No entiendo por qué las tareas individuales han sido creadas por el estudiante 1 aunque después hayan sido asignadas al estudiante 2. Faltan tareas del tipo crear la planificación para la entrega individual.

Corrección

Según el siguiente hilo del foro, <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=_473082_1>, se indicó no cambiar las tareas anteriormente hechas. Por otro lado, he seguido la metodología explicada a la hora de crear las tareas para la entrega C2.

# 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.

No puedo loguearme con customer3/customer3. Parece que en el sistema el usuario customer3 no tiene el realm de customer:

Paso 1: me logueo como customer3/customer3

A close-up of a computer screen

AI-generated content may be incorrect.

Paso 2: se comprueba que no tiene ninguna opción en el menú con el realm de Customer.

A screenshot of a computer

AI-generated content may be incorrect.

Corrección

En este caso, el error se asociaba al “customer 3”, ya que, al iniciar sesión, el sistema no lo asociaba con el rol de “customer”. Así pues, modifiqué el archivo “user-account.csv” con la información de perfil de este, sin asociar ningún dato.

Interfaz de usuario gráfica, Sitio web

El contenido generado por IA puede ser incorrecto.

## Managerial requirements

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

He comprobado el link al dashboard de Github para el estudiante 2 (<https://github.com/users/ManunGar/projects/4>). He hecho clic en la tarea relacionada con el requisito 6 y parece que el que la ha dado de alta ha sido otro estudiante, no Juan Moreno Ríos, que es el estudiante 2. Este trabajo es individual y debería de estar realizado exclusivamente por el estudiante 2, no por el estudiante 1.

A screenshot of a computer

AI-generated content may be incorrect.https://github.com/users/ManunGar/projects/4

Corrección

Según el siguiente hilo del foro, <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=_473082_1>, se indicó no cambiar las tareas anteriormente hechas. Por otro lado, he seguido la metodología explicada a la hora de crear las tareas para la entrega C2.

# 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

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.

Cuando creo un passenger, no me permite crear uno dejando vacío el campo specialNeeds que es opcional.

A screenshot of a computer

AI-generated content may be incorrect.

A la hora de crear un booking record, para asociar un booking con un passenger, en el combo se cargan todos los pasajeros publicados. Entonces, mi pregunta es, ¿para qué implementa la relación entre passenger y customer? La idea de tener desde la clase Passenger el atributo de navegación “customer” es para cargar todos los passengers que han sido creados por un determinado customer, el principal, que además es el propietario del booking al que va a asignarle los pasajeros. NO se pueden asignar datos de pasajeros que no pertenecen a ese customer. Esto está indicado en el siguiente hilo del foro: https://ev.us.es/webapps/discussionboard/do/message?action=list\_messages&course\_id=\_89154\_1&conf\_id=\_426211\_1&forum\_id=\_253522\_1&message\_id=\_465383\_1&nav=discussion\_board

A screenshot of a computer

AI-generated content may be incorrect.

Además, es posible que un “booking” que aún está en modo borrador tenga pasajeros que aún están en modo borrador, tal y como se indica en el foro: <https://ev.us.es/webapps/discussionboard/do/message?action=list_messages&course_id=_89154_1&conf_id=_426211_1&forum_id=_253522_1&message_id=_468122_1&nav=discussion_board>.

Corrección

Cuando se creaba un nuevo “Passenger”, el atributo opcional “specialNeeds” no actuaba como un atributo opcional, sino como obligatorio. Este error se debía a que el validador “@validShortText” tenía la etiqueta “@notBlank”. Por ello, a pesar de tener la etiqueta correspondiente a un atributo opcional, no actuaba como tal. Por ello, suprimí el validador del atributo y lo sustituye por “@ValidString(min = 1, max = 50)”, el cual no afecta a la etiqueta de opcional.

Texto

El contenido generado por IA puede ser incorrecto.

Por otro lado, también se corrigió errores relacionados con la entidad intermedia “bookingRecord”.

En primer lugar, se concreto la llamada al repositorio para seleccionar únicamente aquellos pasajeros pertenecientes al comprador que inicia sesión, además de eliminar la restricción en el mismo repositorio que solo permitía seleccionar pasajeros publicados.

Por otro lado, se eliminó la vista que hacía referencia a la entidad intermedia, la cual no era correcta ya que el usuario desconoce la entidad intermedia por el hecho de ser únicamente una decisión de diseño. Esta vista fue sustituida por dos vistas que, en vez de hacer referencia a “bookingRecord”, hacen referencia a la acción de añadir o eliminar pasajeros a una reserva. En la vista relativa a la acción de añadir, se cargan todos aquellos pasajeros pertenecientes al comprador que inicia sesión, independientemente de si están publicados o no, y en la vista relacionada con la eliminación de pasajeros, únicamente se cargan los pasajeros asociados a la reserva correspondiente.

Vista relacionada con añadir a un pasajero:

Interfaz de usuario gráfica, Texto

El contenido generado por IA puede ser incorrecto.

Vista relacionada con eliminar a un pasajero:

Interfaz de usuario gráfica

El contenido generado por IA puede ser incorrecto.

Vista relacionada con añadir a un pasajero con un comprador distinto:

Interfaz de usuario gráfica, Sitio web

El contenido generado por IA puede ser incorrecto.

## 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.

# MANDATORY Deliverable D04: formal testing

## Information requirements

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

## Functional requirements

Intentionally blank.

## Non-functional requirements

Intentionally blank.

## Testing requirements

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

## Managerial requirements

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

1. Produce a testing report.

# 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.

## 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.

# 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.

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

* Update their profiles.

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

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

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

* Show their customer dashboards.

## 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.

# 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.

## Managerial requirements

1. Produce a lint report.

# 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.

1. Produce a planning and progress report.

# 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.

## Functional requirements

Intentionally blank.

## 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 D03: implementing features

## Information requirements

Intentionally blank.

## Functional requirements

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

* List recommendations related to final destinations in their bookings.

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

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

## 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.