# Requirements – Student #3

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.

**Group:** C1.024

**Repository:** https://github.com/davvarmunUS/Acme-ANS-D02

Student #3

**ID Number:** 17478227K **UVUS:** enrpermil

Name: Pérez Milla, Enrique

Roles: Developer

**Date:** 13/03/2025

# **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.

Χ

# **Non-functional requirements**

Intentionally blank.

# **Testing requirements**

Intentionally blank.

# Managerial requirements

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

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# **MANDATORY**

# **Deliverable D02: data models**

# Information requirements

3) The **flight crew members** are the people responsible for operating aircrafts and ensuring passenger safety and comfort during a flight. The system must store the following data about them: 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**.

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4) A flight assignment represents the allocation of a flight crew member to a specific leg of a flight. 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.

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5) An **activity log** records incidents that occur during a flight. They are logged by any of the **flight crew members** assigned to the corresponding leg and after the **leg** has taken place. The incidents include weather-related disruptions, route deviations, passenger issues, or mechanical failures, to mention a few. Each log entry 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).

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# **Functional requirements**

Intentionally blank.

# **Non-functional requirements**

Intentionally blank.

# **Testing requirements**

6) Produce assorted sample data to test your application informally. The data must include four **flight crew member** accounts with credentials "**memberX/memberX**" with X ranging from 1 to 4 (and different duties each). Additionally, create a fifth member account **member/member**, representing a new member with no flight assignment, as if the account had just been created.

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# **Managerial requirements**

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

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# **MANDATORY**

# **Deliverable D03: implementing features**

# Information requirements

Intentionally blank.

# **Functional requirements**

- 8) Operations by **flight crew members** on **flight assignments**:
- List the flight assignments separately, one for completed flight legs and another one for those planned but that have not taken place yet.
- Show the details of their flight assignments and the associated legs and flight crew members.
- Create, update, and publish their flight assignments. Only crew members with duty "LEAD ATTENDANT" can perform these operations. Please, note that to publish a flight assignment these cannot be linked to legs that have already occurred. Additionally, only flight crew members with an "AVAILABLE" status can be assigned to a leg, and they cannot be assigned to multiple legs simultaneously. Lastly, each leg can only have one pilot and one co-pilot. The allocation of remaining roles for other flight crew members is at the discretion of the "LEAD ATTENDANT". Flight assignments can be updated or deleted as long as they have not been published.
- 9) Operations by **flight crew members** on **activity log records**:
- List the activity log records in their flight assignments.
- Show the details of their activity log records.
- Create, update, delete and publish activity log records. They cannot be published if their corresponding flight assignments have not been published yet. No updating or deletion is possible once an activity log record has been published.

## **Non-functional requirements**

Intentionally blank.

#### **Testing requirements**

Intentionally blank.

# Managerial requirements

10	)) Provide a l	ink to your	planning	dashboard	in Gith	lub to i	review t	he tasks,	their	current
	status, and	your sched	ule.							

MANDATORY				
Deliverable D04: formal testing				
Information requirements				
11) Create appropriate indices for your entities, if required.				
Functional requirements				
Intentionally blank.				
Non-functional requirements				
Intentionally blank.				
Testing requirements				
12) Produce a test suite for Requirements #8 and #9.				
Managerial requirements				
13) Provide a link to your planning dashboard in GitHub to review the tasks, their current status, and your schedule.				
14) Produce a testing report.				

# Information requirements Intentionally blank. Functional requirements Intentionally blank. Non-functional requirements Intentionally blank. Testing requirements Intentionally blank. Managerial requirements Intentionally blank. Managerial requirements Intentionally blank.

**SUPPLEMENTARY I** 

# **SUPPLEMENTARY I**

# **Deliverable D02: data models**

# **Information requirements**

- 15) The system must handle **flight crew member dashboards** with the following **indicators**:
- The last five destinations to which they have been assigned.
- The number of legs that have an activity log record with an incident severity ranging from 0 up to 3, 4 up to 7, and 8 up to 10.
- The crew members who were assigned with him or her in their last leg.
- Their flight assignments grouped by their statuses.
- The average, minimum, maximum, and standard deviation of the number of flight assignments they had in the last month.

# **Functional requirements**

Intentionally blank.

## **Non-functional requirements**

Intentionally blank.

## **Testing requirements**

Intentionally blank.

# **Managerial requirements**

16) Produce a UML domain model regarding the information requirements in your project.

# SUPPLEMENTARY I Deliverable D03: implementing features Information requirements Intentionally blank.

# **Functional requirements**

- 17) Operations by anonymous principals on user accounts:
- Sign up to the system and become a flight crew member.
- 18) Operations by flight crew members on user accounts:
- Update their profiles.
- 19) Operations by any principals on flight assignments:
- List the flight assignments that are published.
- Show the details of the flight assignments (excluding their activity logs).
- 20) Operations by flight crew member on dashboards:
- Show their flight crew member dashboards.

# **Non-functional requirements**

Intentionally blank.

## **Testing requirements**

Intentionally blank.

# **Managerial requirements**

21) 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.

Deliverable D04: formal testing			
Information requirements			
Intentionally blank.			
Functional requirements			
Intentionally blank.			
Non-functional requirements			
Intentionally blank.			
Testing requirements			
22) Perform five mutations in your code and report on the results.			
Managerial requirements			
23) Produce a lint report.			

SUPPLEMENTARY I

SUPPLEMENTAR	Y II	
Deliverable D01:	introduction	
Information requiren	nents	
Intentionally blank.		
Functional requireme	ents	
Intentionally blank.		
Non-functional requi	rements	
Intentionally blank.		
Testing requirements	<b>;</b>	
Intentionally blank.		
Managerial requirem	ients	
24) Produce an analys	sis report.	
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25) Produce a plannir	ng and progress report.	
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# **SUPPLEMENTARY II**

# **Deliverable D02: data models**

28) Produce a planning and progress report.

# Information requirements

26) The system is required to provide crew members with information about **visa requirements**. A web service must be used to populate this entity with information about visa requirements. 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 hire pay-per-use services! The students are strongly advised to ensure that the service they choose is free of charge.

Functional requirements	
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Non-functional requirements	
Intentionally blank.	
Testing requirements	
Intentionally blank.	
Managerial requirements	
27) Produce an analysis report.	

# **SUPPLEMENTARY II Deliverable D03: implementing features** Information requirements Intentionally blank. **Functional requirements** 29) Operations by flight crew members on visa requirements: • List visa requirements according to the destination countries of their flight assignments. Show the details of the visa requirements they can list. 30) Operations by administrators on visa requirements: Populate the database with visa requirements data. Non-functional requirements Intentionally blank. **Testing requirements** Intentionally blank. **Managerial requirements**

31) Produce an analysis report.

32) 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
33) Produce as a complete test suite as possible for Requirement #29 ensuring that the web service is properly mocked.
Managerial requirements
34) Produce an analysis report.
35) Produce a planning and progress report.