User Requirements, G7

Handling ERASMUS Students (FINAL version)

Summary

This document defines the assignment for students in group G7 of the Software Engineering course (22/23). The document is the basis for creating a student project. Any suspicion of plagiarism will result in a detailed analysis of the solution code and an oral examination.

Little story on your background

> **Note**
>
> Situation presented in this document is **entirely** made up. EOSM and mentioned characters do not exist and are not based on real world. Every similarity to the real world is accidental.

It is the autumn of 2026. You have been employed in the European Office of Student Mobility (EOSM) in the role of *EOSM Administrator*. The EOSM handles placement of all university students that want to experience ERASMUS in the EU. And now, that is your new job. You must handle those ERASMUS students, but since you are an IT educated professional, it is also expected that you create a piece of software to help you with the job.

You soon realize the entire office is a mess. Apparently, the old lady who was handling all the paperwork has retired and now lives on Hawaii, with no contact to the outside world. All you have left is a bunch of official documents she created which you must analyze and based on which you need to create a software solution to handle all ERASMUS students.

You notice 5 main business system documents:

Form FADF-0	Faculty Affiliation and Designation Form
Form MLSM-1	Motivation Letter for Student Mobility
Form UVEPAR-2	University Verification of ECTS Points and Academic Records
Form CPUF-3	Catalogue of Partner Universities and Faculties
Form PLPUF-4	Preference List of Partner Universities and Faculties
Document MPAD-5	Mobility Program Acceptance Document

Since you are well versed in the IT, you are surely not going to be printing anymore of these documents on papers. You decide to create a piece of software which allows students to sign up for the programme and the officials to log in, setup a password, and handle their part of the job. These officials are *Faculty Programme Administrators* – FPAs, and yourself – an *EOSM Administrator*. Analyze what you have and create an automated solution to help you do the job faster, safer, and more efficiently.

EOSM Administrator **defines** the universities in the system. Universities have faculties which the *EOSM Administrator* **does not define**! Each faculty in a university has a responsibility to appoint a single person to become a Faculty Programme Administrator (FPA). This FPA person is going to be one of your application's end-users, along with the students and you. On their first interaction with the new system you are building, an FPA is going to need to define their password along with their personal and faculty information.

Check the documents on the following pages carefully and observe what does the student need to fill in, what does the FPA need to fill in and what do you need to do on your side of the system.

Added value from your new software should be the ability to check as much statistics as possible, such as which countries, universities and faculties draw the most interest from students, what university has the most faculties in the system, what faculty has the most students registered in the system etc. Optionally, added value should be that all participants receive emails when they need to take some steps in the application process.

An *EOSM Administrator* needs to be able to locate and get information about every user in the system. That means when you, the *EOSM Administrator*, type in the name of any student who signed in, there should be detailed information available about what the status of their application is. However, when an FPA types in the name of a student, they get the information **only** if that student belongs to their faculty! Otherwise, the system reports that there is no such student by that name.

First paper you see is a **Form FADF-0 - Faculty Affiliation and Designation Form**. It's purpose is to allow new faculties (of existing universities) to participate in the programme.

ERASMUS Office of Student Mobility
Form FADF-0   Faculty Affiliation and Designation Form

Date and place: 4.7.2025., Riga

Faculty Information:

Home University:	University of Latvia
Home Faculty:	Faculty of Computing
Faculty address:	Raiņa bulvāris 19, Rīga, Latvija
Field of study:	Computer Science

Faculty programme administrator information:

Name:	Arčijs
Surname:	Riekstiņš
Email:	ariekstins@edu.lu.lv
Phone:	+371 781 45888
Signature and official stamp:	

To be sent to ERASMUS Office of Student Mobility for processing.

DO NOT WRITE BELOW LINE

University ID:	43
Faculty ID:	576
Date added:	13.9.2025. 13:27

EOSM Administrator: _____

ℹ️	Note

See these two stamps and signatures? That is exactly what needs to become history in the new system. Logging in with a password should be the new stamp and a signature on any piece of data a logged-in user adds or modifies.

Notice that the FPA is introduced into the system via this form, along with their respective faculty.

Next form you come over is **Form MLSM-1 Motivation Letter for Student Mobility**, which the students fill in to request a participation in the mobility program. The form is shown below.

ERASMUS Office of Student Mobility

Form MLSM-1   Motivation Letter for Student Mobility

Name and surname: XANDER IOSEB

Student information:

Home country: *Latvia*

Home city: *Riga*

Home address: *Anniņmuižas bulvāris 32*

Faculty email: xioseb@edu.lu.lv

Phone: **+371 516 7437**

Motivation for student mobility:

As a latvian IT student from Riga, I am eager to sign up for the ERASMUS student mobility program and travel to France for several reasons. Firstly, I believe that studying abroad is an incredible opportunity for personal and academic growth. The chance to experience a new culture and learn in a different academic environment is an opportunity that I do not want to miss. France, in particular, is a country with a rich history and culture, and studying there would expose me to new perspectives and ways of thinking that I may not have encountered otherwise. Secondly, France is home to some of the best universities in the world, especially in the field of IT. Studying there would give me the opportunity to learn from some of the best professors and researchers in the field, as well as access to state-of-the-art facilities and resources. Moreover, I am interested in improving my language skills, and studying in France would allow me to immerse myself in the French language and culture. Being able to communicate effectively in French would not only benefit me academically but also in my future career prospects. Finally, participating in the ERASMUS program would give me the chance to make new friends and build connections with people from all over the world. This would broaden my horizons and help me to develop a more global perspective, which is increasingly important in today's interconnected world.

Overall, I believe that participating in the ERASMUS student mobility program and traveling to France would be an incredible opportunity for personal and academic growth, language acquisition, and the chance to build connections with people from around the world.

Date and place: **17.10.2026.   Riga**

Student signature: *Xander Ioseb*

Deliver this document to your faculty's responsible programme administrator.

Next form you find and observe is the **Form UVEPAR-2 University Verification of ECTS Points and Academic Records**.

ERASMUS Office of Student Mobility

Form UVEPAR-2   University Verification of ECTS Points and Academic Records

Document for:	
Name and surname:	Xander Ioseb
Student ID:	32151-b

Information:	
Home University:	Latvijas Universitāte
Home Faculty:	Faculty of Computing
Field of study:	Computer Science
Achieved ECTS points:	103

Verified student information:
Home country: Latvia
Home city: Riga
Home address: Anniņmuižas bulvāris 32
Email: xioseb@edu.lu.lv
Phone: +371 516 7437

Faculty programme administrator:
Signature:
Written name (Latin): Arčijs Riekstiņš

Approved:
23.10.2026. 10:13

To be sent to ERASMUS Office of Student Mobility for processing.

Notice that the Faculty Programme Administrator (FPA) is the same person who registered the faculty into the system. Now, they are the one who enter all the data in this form and verify student is in fact studying in the faculty and has achieved (in this case) 103 ECTS points.

Next document is the **Form CPUF-3 Catalogue of Partner Universities and Faculties**.

ERASMUS Office of Student Mobility

Form CPUF-3   Catalogue of Partner Universities and Faculties

Name and surname:	Xander Ioseb
Student ID:	32151-b

This document validates the appeal and serves as basis for contract signature.

Verified university information:

Home University:	Latvijas Universitāte
Field of study:	Computer Science

Verified student information:

Home country: Latvia
Home city: Riga
Home address: Anniņmuižas bulvāris 32
Email: xioseb@edu.lu.lv
Phone: +371 516 7437

List of eligible faculties that student can pick from:
Faculties were selected based on currently available options custom-tailored for the student.

Country	University Name	Faculty name
France	Sorbonne University	Faculty of Science & Engineering
France	Sorbonne University	Faculty of Sciences
France	Université Paris-Est Créteil	Faculty of Sciences and Technology
Rep. of Cyprus	University of Cyprus	Department of Computer Science
Finland	University of Helsinki	Faculty of Science
Finalnd	University of Turku	Faculty of Mathematics and Natural Sciences
Finland	Aalto University	School of Science
Croatia	University of Zagreb	Faculty of organization and informatics
Croatia	University of Zagreb	Faculty of electrotehnics and engineering
Hungary	Eötvös Loránd University	Faculty of Informatics

This document was verified and validated by the ERASMUS Office of Student Mobility (EOSM).

Date validated: 3.11.2026.
EOSM Administrator:

ⓘ	Note

You are the EOSM Administrator but do note that you are **not** a FPA („Faculty Programme Administrator") – it is not the same role! Each faculty has its own FPA.

Next document is the **Form PLPUF-4 Preference List of Partner Universities and Faculties**.

ERASMUS Office of Student Mobility

Form PLPUF-4   Preference List of Partner Universities and Faculties

Name and surname:	Xander Ioseb
Student ID:	32151-b

Pick from universities approved in the: Form CPUF-3

	Country	University Name	Faculty name
	Austria		
	Belgium		
	Bulgaria		
X	Croatia	*University of Zagreb*	*Faculty of organization and informatics*
	Rep. of Cyprus		
	Czech Republic		
	Denmark		
	Estonia		
X	Finland	*University of Helsinki*	*Faculty of science*
X	France	*Sorbonne University*	*Faculty of Science & Engineering*
	Germany		
	Greece		
	Hungary		
	Ireland		
	Italy		
	Latvia		
	Lithuania		
	Luxembourg		
	Malta		
	Netherlands		
	Poland		
	Portugal		
	Romania		
	Slovakia		
	Slovenia		
	Spain		

Priority:
1 *France*
2 *Croatia*
3 *Finland*

Date:	*4.11.2026.*
Student signature:	*Xander Ioseb*

This document will serve as basis for picking your destination.

From looking at it, you conclude that the form **PLPUF-4** is used for students to choose their preferred destination out of possible ones listed in the **CPUF-3**. Here on the **PLPUF-4**, they check the box next to the country name they want to visit and write in a University and Faculty where they want to go. Note that maximum of three countries can be selected on this form and set in priority list.

Final document is the **Document MPAD-5 Mobility Program Acceptance Document**.

ERASMUS Office of Student Mobility
Document MPAD-5   Mobility Program Acceptance Document

Name and surname:	Xander Ioseb
Student ID:	32151-b

You have been accepted into:	
Destination University:	University of Zagreb
Faculty:	Faculty of organization and informatics
ERASMUS Start date:	1.3.2027. (1st of March 2027)

EOSM Administrator: _____

Programme approval date:
21.11.2026. 9:07

By your signature below, you agree to travel to country:

Date and place: 7.12.2026. Riga

Student signature: Xander Ioseb

This document is used as basis for travel costs and scholarship.

The selection is based on student's achieved ECTS points. The more points a student has, the higher chance they get their priority #1 country as mobility programme destination. However, it is ultimately the EOSM Administrator who decides which country does a student go to. Note that the student needs to place their signature on the bottom of the **Document MPAD-5**. If they are not satisfied with the destination country they are accepted to, they can refuse to sign this final document and the entire application is ruined.

NECCESSARY SPECIFICATION ELEMENTS

The specification should contain at least:
- 8 functional requirements, of which at least:
  - 1 request in the fetched data display domain
  - 1 request in the domain of data entry
  - 1 request in the domain of report creation
  - 1 request in the domain of displaying statistical data
- 2 non-functional requirements, of which at least:
  - 1 request in the software appearance domain
  - 1 request in any other domain