Construcción de software
ITC

Equipo MEMEH
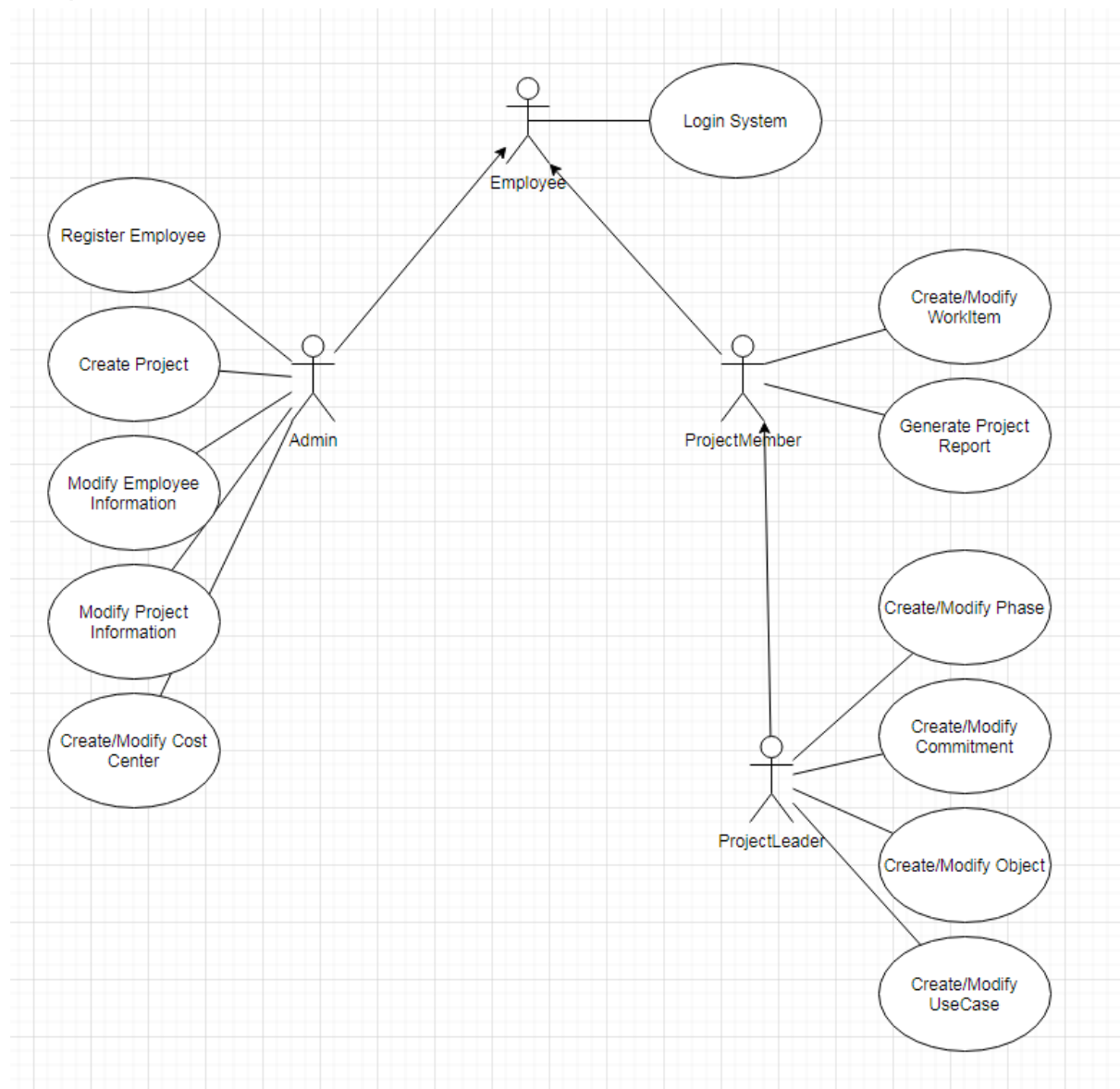
Semana 5

Avance 4
Prueba de concepto

1) USE CASE DIAGRAM

2) NEW PROJECT

Use Case Section	Description
Name	New Project
Brief Description	Create a new Project in the system
Flow of Events	1, User go to the page of "New Project" 2, User enter Project Name and Description 3, User press "Save" Button 3, System take the information from User Entered, 4, System check if all the information is valid

	5.1 if the information is NOT valid, system go back to the "New Project" page, with the User Entered Information, and mark the invalid section 5.2 if the information is valid, system insert the new project information in Database Enter Project Page of New Project
Special Requirements	security: avoid SQL injection
Precondition	User is Logged in, and enter the New Project page, User Role is Employee,
Post condition	User succeed to create new Project, then go to the project page of that project

New Project

Basic Flow

1, Put Information
User Enter the information of Project(Project Name, Description)

2, Press Save
User Press the "Save Button"

3, Display Project Page
display the Project page of the new project

 Alternate Flows

A1, Empty Project Name
if system detect the Project Name is empty,
System will stay in current pay, and display the Error Msg

A2, Duplicated Project Name
if system detect the Project Name already exist in Database
System will stay in current pay, and display the Error Msg

A3, Click other link on the page
if User other link on the page,
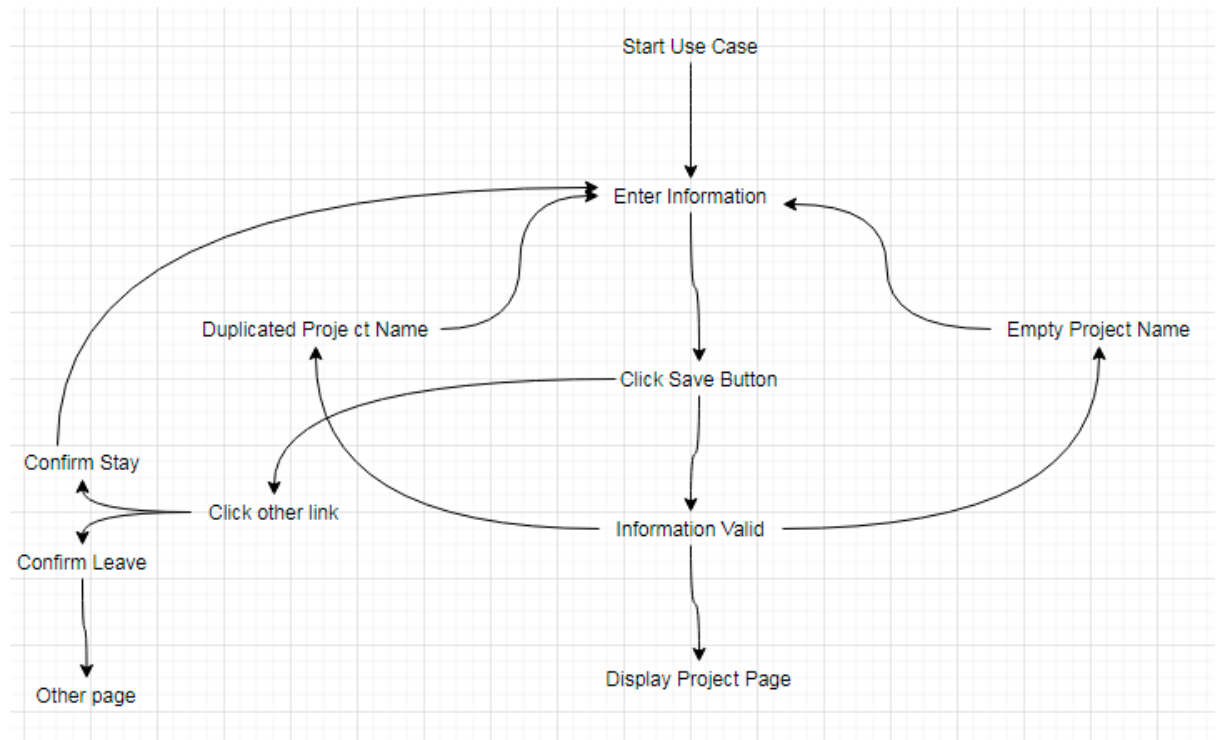System display the popup msg of "Are you sure to leave the page"

A3.1 Confirm to Leave
If User click yes, system log out, and display other Page

A3.2 Confirm to Stay
If User click no, stay in the same page

Question: need to consider the data fail situation?

https://app.diagrams.net/#G1M6YI6ktRbCFBEHQjgU9tyvjBFZvuRFHV

S1	Basic Flow		
S2	Basic Flow	A1	
S3	Basic Flow	A2	
S4	Basic Flow	A3	A3.1
S5	Basic Flow	A3	A3.2

S1- Success to Create Project	Basic Flow	
S1.1- Success to Create Project, with empty	Basic	

description	Flow	
S2 - Empty Project Name	Basic Flow	A1
S3 - Duplicated Project Name	Basic Flow	A2
S4 - Click other link, confirm leave	Basic Flow	A3.1
S5 - Click other link, confirm stay	Basic Flow	A3.2

Test Case For use case

Test Case Id	Scenario	Project Name	Description	Press Save Btn	Press Other link Confirm Leave	Press Other link Confirm Stay	Expected Result
TC1	S1- Success to Create Project	V	V	Yes	n/a	n/a	Display Project Page of new Project
TC1.1	S1.1- Success to Create Project with empty description	V	Empty	Yes	n/a	n/a	Display Project Page of new Project
TC2	S2 - Empty Project Name	Empty	V	Yes	n/a	n/a	Stay in the page, display

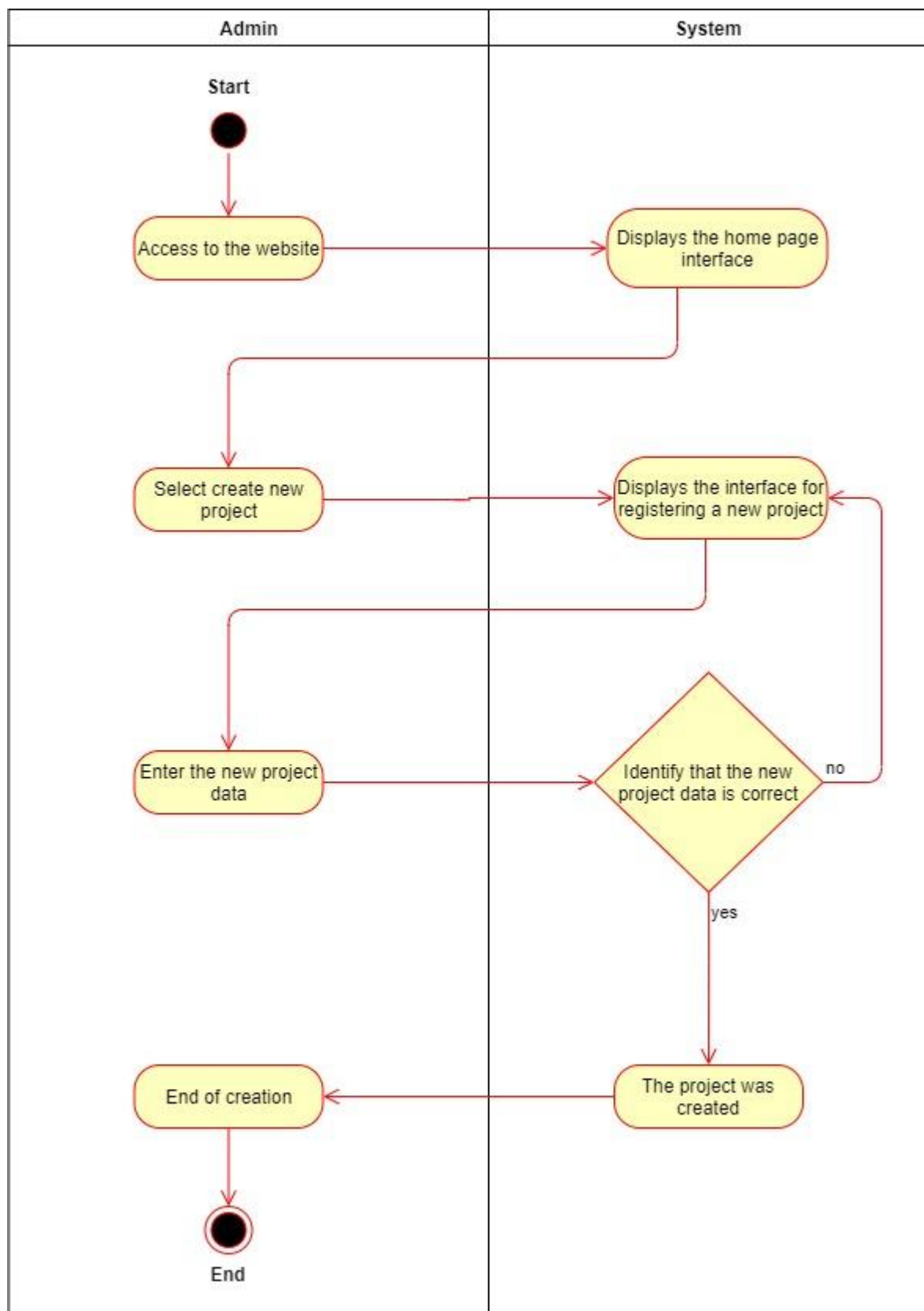|							error msg
TC3	S3 - Duplicated Project Name	Duplicate Name	V	Yes	n/a	n/a	Stay in the page, display error msg
TC4	S4 - Click other link, confirm leave	V	V	n/a	Yes	No	go to other page
TC5	S5 - Click other link, confirm stay	V	V	n/a	No	Yes	Stay in the current page

Test Case for with Test data

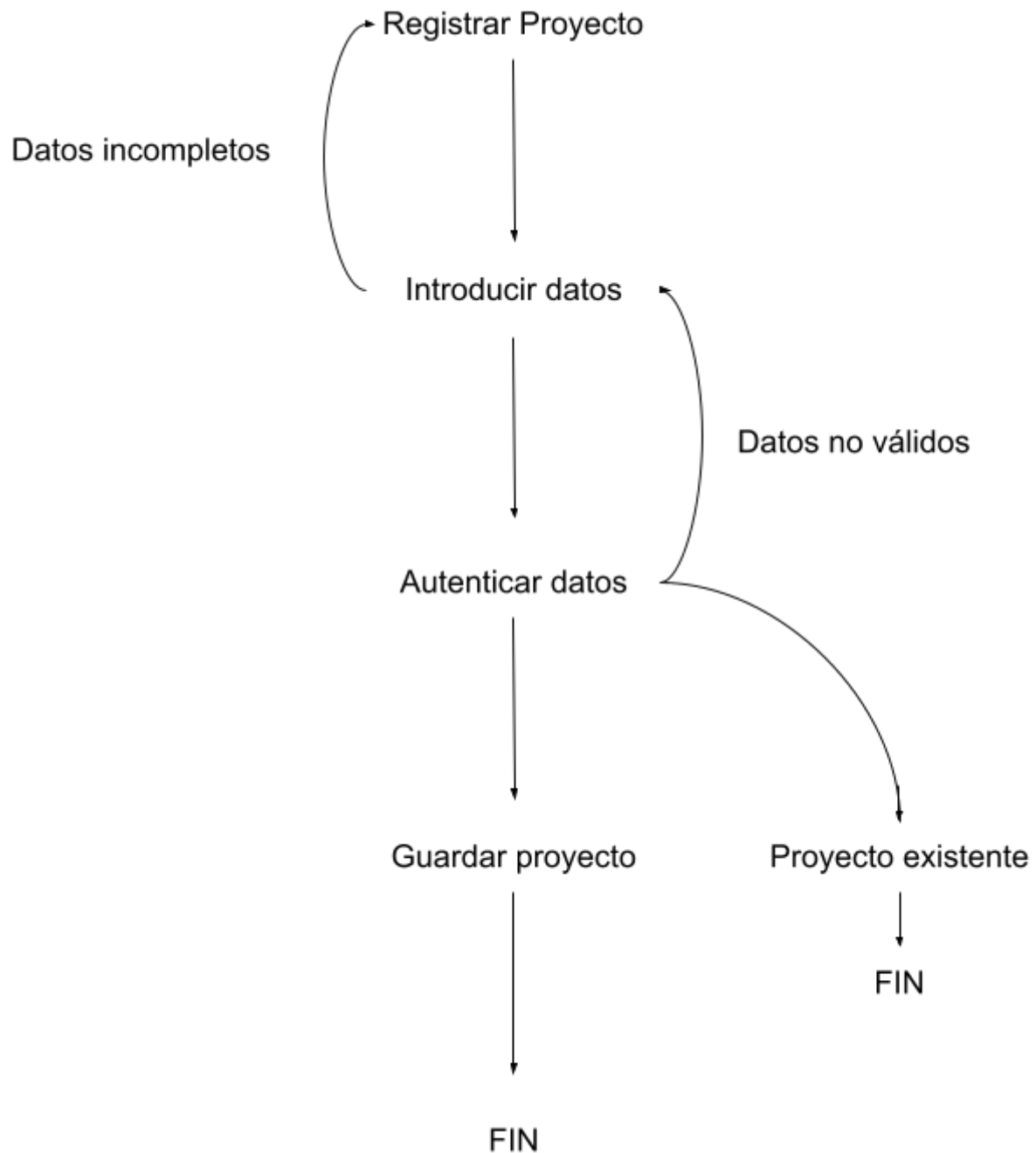| Test Case Id	Scenario	Project Name	Description	Press Save Btn	Press Other link Confirm Leave	Press Other link Confirm Stay	Expected Result
TC1	S1- Success to Create Project	P1	D1	Yes	n/a	n/a	Display Project Page of new Project
TC1.1	S1.1- Success to Create	P1		Yes	n/a	n/a	Display Project Page

							of new Project
	Project with empty description						
TC2	S2 - Empty Project Name			Yes	n/a	n/a	Stay in the page, display error msg
TC3	S3 - Duplicated Project Name	PD		Yes	n/a	n/a	Stay in the page, display error msg
TC4	S4 - Click other link, confirm leave	P1		n/a	Yes	No	go to other page
TC5	S5 - Click other link, confirm stay	P1		n/a	No	Yes	Stay in the current page

Admin	System

Start

● Start

Access to the website → **Displays the home page interface**

Select create new project → **Displays the interface for registering a new project**

Enter the new project data → **Identify that the new project data is correct** — no

yes

The project was created → **End of creation**

● End

3) Decisions Tree


```
              Registrar Proyecto
                    │
                    ▼
Datos incompletos
                Introducir datos  ◄─┐
                    │              │
                    │          Datos no válidos
                    ▼              │
                Autenticar datos ──┤
                    │              │
          ┌─────────┘              ▼
          ▼                   Proyecto existente
     Guardar proyecto              │
          │                        ▼
          ▼                       FIN
         FIN
```

4) Identify different scenarios

Flujo básico
● Registro completado: El proyecto se registra correctamente a la base de datos

Flujo alternativo
● Datos incompletos: El sistema nos dice que faltan datos de registro para completar el registro.

- Datos inválidos: Se nos dice que los datos puestos son inválidos y/o incorrectos.

5) Table to detail the flows for each scenario

Nombre del escenario	Flujo inicial	Alterno
Registro completado	Flujo básico	
Datos incompletos	Flujo básico	A1
Datos inválidos	Flujo básico	A2

6) Table to identify valid or invalid actions for the execution of the Use Case

Test case ID	Scenario/Condition	Project name	Fecha de inicio	Fecha finalización	Empleado encargado	Descripción	Expected result	Obtained result
R01	Successful registration	V	DD/MM/YY	DD/MM/YY	V	V	Confirmation of the project being saved,	No errors, data saved successfully
R02	Missing data	V	N/A	N/A	V	V	Error indicating that there is missing data; return to project registration page.	Error dialog displayed, data is not deleted to let the user correct it.
R03	Invalid data	V	V	I	NULL	V	Error indicating that there is invalid data; return to project registration page.	Error dialog displayed, data is not deleted to let the user correct it.

7) Table where I specify values for each Use Case

Test case ID	Scenario/Condition	Project name	Fecha de inicio	Fecha finalización	Empleado encargado	Descripción	Expected result	Obtained result
R01	Successful registrat	Test project	9/03/21	18/03/21	José Miguel	This is a test project	Confirmation of the project	No errors, data saved successfully

								being saved,	
	ion								
R02	Missing data	Test Project 2			Antonio Díaz	This is another test project	Error indicating that there is missing data; return to project registration page.	Error dialog displayed, data is not deleted to let the user correct it.
R03	Invalid data	Test project 3	9/03/21	fdhfdgj kdf	NULL	This is just a new test	Error indicating that there is invalid data; return to project registration page.	Error dialog displayed, data is not deleted to let the user correct it.