

Project 2 ERP Requirements

Oscar Bellerino
Marc Cristóbal
Brandon Jiménez
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1. What is an ERP?

An ERP, or Enterprise Resource Planning, is a type of software that integrates and manages the core functions and processes of an organization into a single system. These systems are designed to help companies improve efficiency, visibility, and decision-making by providing a centralized platform for data and process management.

An ERP system typically covers various areas of a company, such as finance, accounting, human resources, inventory management, production, purchasing, and sales. The idea is that information flows cohesively across all these areas, enabling the company to make informed, data-driven decisions in real-time.

Key features of ERP systems include data integration, business process automation, reporting and analysis capabilities, and the ability to provide a comprehensive view of the company. ERPs are used in a variety of industries and company sizes to enhance operational efficiency and facilitate coordination across different business functions.

2. Types of ERP

There are various types of ERP systems that cater to the specific needs of different industries, company sizes, and business models. Some common types of ERP include:

- **Industry-Specific ERP:** These systems are designed to meet the unique needs of specific industries such as manufacturing, healthcare, education, construction, retail, among others. They are configured with specific functionalities tailored to the operations and unique requirements of each sector.
- **Enterprise ERP:** These systems are designed to address the general needs of a business, regardless of the industry. They are more flexible and customizable to adapt to a variety of business processes.
- **Cloud ERP:** These systems run on cloud platforms, allowing businesses to access their data and functions over the internet. They offer flexibility and scalability as they do not require local hardware infrastructure.
- **Open Source ERP:** Open-source ERP systems have their source code available to the public. This allows businesses to customize and edit the software according to their needs. Examples include Odoo and ERPNext.

- **Modular ERP:** These systems allow businesses to implement specific modules according to their needs. For example, a company may start with financial modules and then add human resources and production modules as needed.
- **Small and Medium Enterprise (SME) ERP:** Specifically tailored for small and medium-sized enterprises, these systems offer essential functionalities at a more affordable cost.
- **Custom ERP:** Some companies choose to develop their own custom ERP systems to meet very specific business requirements. This can be costly and requires significant resources.

Each type of ERP has its own advantages and challenges, and the choice of the system will depend on the specific needs of the company, its budget, and long-term goals.

3. Advantages and disadvantages of ERP

3.1 Advantages of ERPs

- **Process Integration:** ERPs integrate and centralize business processes, improving efficiency and data consistency throughout the organization.
- **Enhanced Decision-Making:** They provide real-time information and analytical tools, facilitating informed decision-making.
- **Resource Optimization:** ERPs help optimize resource usage by providing a comprehensive view of operations, reducing costs, and improving productivity.
- **Process Automation:** ERPs automate repetitive tasks and workflows, increasing efficiency and reducing errors.
- **Improved Visibility:** They offer a global view of the company, enabling more accurate tracking of operations and performance.
- **Regulatory Compliance:** ERPs facilitate compliance with regulations and standards, as they may include specific features for compliance management.

3.2 Disadvantages of ERPs

- **Initial Cost:** Implementing an ERP system can be costly in terms of software licenses, hardware, training, and consulting.

- **Complexity:** Implementation and customization of an ERP can be complex and time-consuming. Adapting to existing processes can be a challenge.
- **Resistance to Change:** Employees may resist change, especially if it involves learning a new system. Proper training is essential.
- **Vendor Dependence:** Companies can become dependent on the ERP vendor, posing risks in terms of updates, support, and business continuity.
- **Excessive Customization:** Over-customizing the ERP can increase complexity and long-term costs. Balancing customization with the need for simplicity is crucial.
- **Implementation Risks:** There are potential risks during the implementation phase, such as temporary data loss or disruptions in operations.

Each company should carefully assess these advantages and disadvantages in the context of its specific needs before deciding to implement an ERP system. Proper planning and management are essential to maximize benefits and minimize challenges associated with ERPs.

4. Objectives of an ERP

The ERP systems are implemented with various objectives to improve the efficiency and management of a company. Some common objectives of an ERP include:

- **Process Integration:** One of the main objectives of an ERP is to integrate and centralize business processes into a single system. This helps eliminate data redundancy and improves information consistency throughout the organization.
- **Improved Operational Efficiency:** ERPs aim to optimize efficiency by automating manual tasks, reducing processing times, and enhancing collaboration between different departments.
- **Informed Decision-Making:** Facilitating informed decision-making is another key objective. ERPs provide real-time information and analytical tools that enable managers to make decisions based on accurate and up-to-date data.
- **Resource Optimization:** ERP systems help optimize resource usage, whether in terms of personnel, raw materials, or production capacity. This can lead to cost reduction and increased profitability.
- **Enhanced Visibility:** Providing a comprehensive, real-time view of business operations is essential. An ERP allows managers to have an integrated view of all areas of the company.

- **Regulatory Compliance:** Many ERPs are designed to assist companies in complying with specific industry regulations and standards. This is crucial, especially in highly regulated sectors.
- **Improvement in Customer Experience:** By improving operational efficiency and product or service quality, ERPs can contribute to a better customer experience.
- **Adaptation to Business Changes:** ERP systems should be flexible enough to adapt to changes in the business environment, such as expansion, product diversification, or changes in regulations.
- **Enhanced Collaboration:** Facilitating communication and collaboration between different departments and locations is another important objective. Efficiently shared information can improve coordination and decision-making.
- **Error Reduction:** By automating processes and minimizing manual data entry, ERPs help reduce errors and improve the accuracy of information.

These objectives may vary based on the specific needs of each company, but overall, an ERP aims to enhance efficiency, transparency, and decision-making capability throughout the organization.

5. Characteristics and configuration of the investigated ERPs

5.1 iDempiere (Oscar)

ERP name: iDempiere

Current version: 10.0.0.202311151425

Database Version: 202310271330_IDEMPIERE-5893.sql

Company or organization: primarily maintained and supported by a community of volunteers, developers, and contributors rather than a specific company or organization.

Creation year and country: 2012 (iDempiere was originally forked from another open-source ERP system called ADempiere. ADempiere itself was a fork of Compiere, which was created in the United States).

URL: <https://www.idempiere.org/>

iDempiere is a powerful, open-source ERP/CRM/SCM system supported by a skilful community. The project focuses on high-quality software, a philosophy of openness and its collaborative community that includes subject matter specialists, implementers, developers and end-users.

iDempiere has earned a strong reputation for its high-quality, architectural design, reliability, robust feature set, extensibility, and the commitment of the open-source community behind the project to consistently develop and improve the software with performant and innovative solutions.

5.1.2 Configuration

You can try different online demo versions of iDempiere: the latest stable version, a version that includes features that might not be in the stable version but will be available in the next release and the latest development version, all of them with different roles. It can be downloaded too through installers, a docker image or by setting up a new iDempiere development Environment with a simple script (Linux-based OS only).

To make it work once installed, it is necessary to meet the following specifications:

Operating System: Compatible operating systems like Windows, Linux, or Mac OS.

Java Development Kit (JDK): As iDempiere is built on Java, you'll need a compatible version of JDK installed.

Database: A supported database system like PostgreSQL, Oracle,....

5.1.3 Functionalities

Financial Management: This module handles core financial operations, including general ledger, accounts payable, accounts receivable, budgeting, and financial reporting.

Sales and CRM (Customer Relationship Management): Manages sales processes, customer data, order management, sales analysis, and customer interaction tracking to enhance relationships.

Purchasing and Procurement: Deals with procurement processes, vendor management, purchase orders, supplier information, and procurement analytics.

Inventory and Warehouse Management: Controls inventory levels, tracks stock movements, manages warehouses, handles stock valuation, and facilitates inventory planning and optimization.

Manufacturing: Includes features for managing production processes, bill of materials, work orders, production planning, quality control, and resource allocation.

Human Resources and Payroll: Manages employee information, payroll processing, attendance, benefits administration, and HR-related regulatory compliance.

Project Management: Covers project planning, resource allocation, cost tracking, task management, and project progress monitoring.

Service Management: Handles service-related functionalities such as service requests, ticketing, case management, service level agreements (SLAs), and customer support.

Reporting and Analytics: Provides tools for generating various reports, analytics, and dashboards to visualize and analyze data across different modules.

5.1.4 Characteristics

Type of license: GNU General Public License (GPL) version 2.

Platforms on which it can work: OSGi, Jetty, ZK (framework).

Have an online version: Doesn't have an official online version hosted by the developers themselves, but users can set up iDempiere on cloud servers or deploy it on their own local systems to access it remotely.

Language or languages in which it is developed: Developed in Java and uses SQL for interacting with databases.

Includes CRM: Yes.

It's completely free or includes some payment option: Is fundamentally free and open-source, the core software and its functionalities are available for anyone to use, Edit, and distribute without any licensing costs but there might be associated costs with additional services or specialized functionalities.

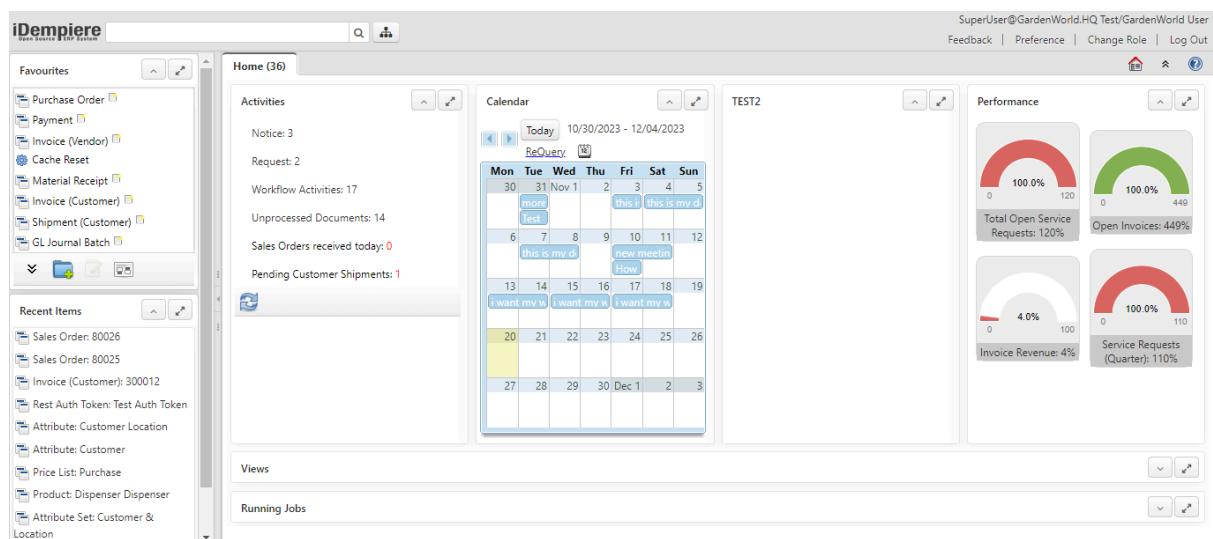
Customizable: Yes, you can create your own modules.

5.1.5 Demo screens

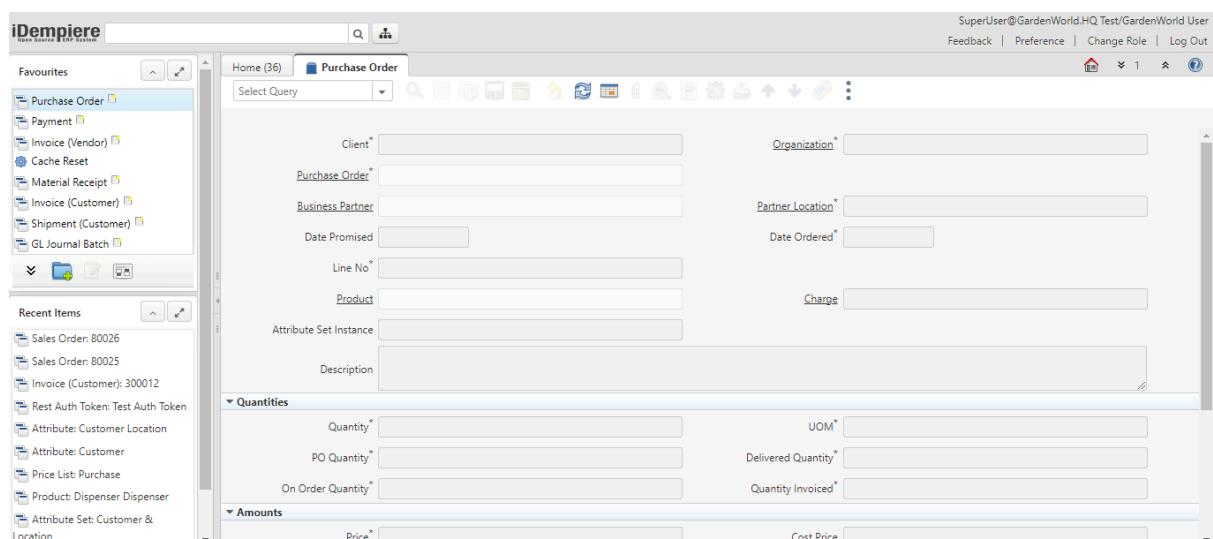
Login screen with different role profiles:



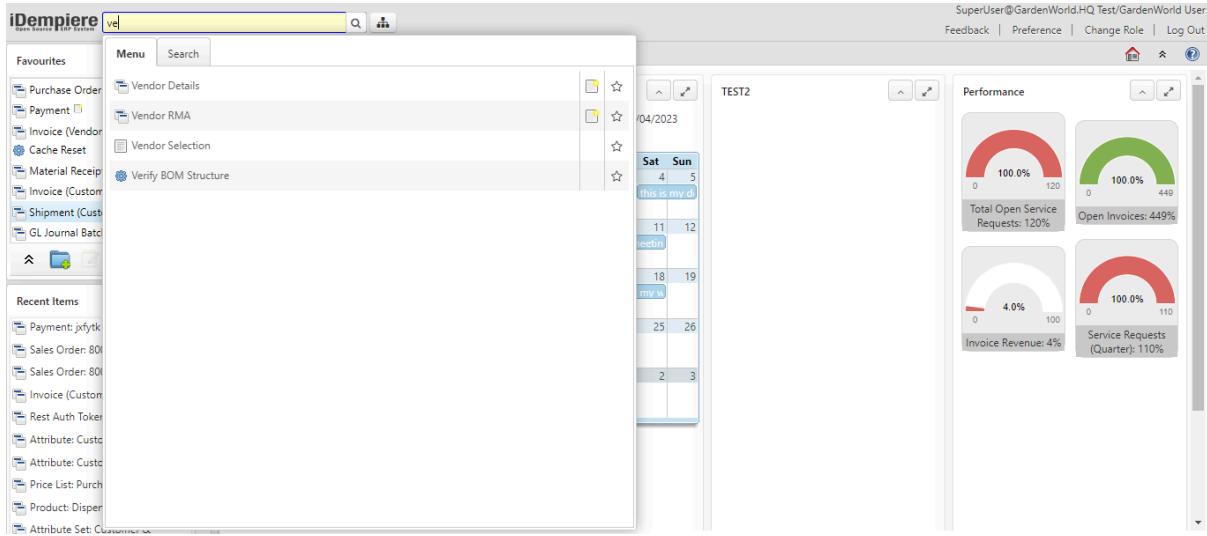
Home screen with different views, a favourites menu in the left side and recent items:



Adding new elements to different sections from the left panel:



Using a search bar to find all coincidences in the application such as sections, configurations, window:



5.2 iDempiere (Brandon)

Technical Data Sheet

- **ERP name :** iDempiere Business Suite
- **ERP URL :** <https://www.idempiere.org>
- **development company :** Community development
- **Year of creation:** 31 October 2012
- **Developing country:** Colombia, Malaysia
- **ERP license type:** GPLv2, which allows its users to make use of all of its functionalities.
- **Platforms on which it can work:** OSGi, Tomcat→Jetty, ZK Framework
- **It is online or has an online version:** It has an online and desktop version.

5.2.1 Configuration

The necessary configuration to use the iDempiere ERP system includes the following requirements:

- Operating System: Ubuntu 22.04 64-bit
- Database: PostgreSQL 141. In certain scenarios, it is required to install PostgreSQL contrib for UUID support.
- Java Development Kit (JDK): OpenJDK 17 for master, OpenJDK 11 for release-10.

The specific steps to configure the system are in the official documentation, which is based on Linux systems, but IDempiere can be used on other systems (even Windows), taking care of installing the corresponding packages and using corresponding commands.

In any case, this ERP has a web demo version to test it, and the only thing necessary to use the demo are the credentials that are provided by the website itself.

5.2.2 Functionalities

iDempiere is a comprehensive open-source ERP software suite that offers a wide range of functionalities. Here are some of the principal functionalities of this ERP:

Customer Relationship Management (CRM): iDempiere aids in strengthening customer relationships by centralizing customer data, enabling personalized communication, and improving customer service.

Supply Chain Management (SCM): iDempiere simplifies the complexities of supply chain management by optimizing procurement, inventory control, and distribution.

Material Management: This includes the management of materials and inventory within the organization.

Procurement: This involves the acquisition of goods and services that are necessary for the organization.

Sales and Marketing: This includes the management of sales processes and marketing activities.

Manufacturing Management: This involves the management of the manufacturing processes within the organization.

Financial Accounting: This includes the management of financial transactions and accounting processes.

Human Resources Management: This involves the management of employee data, payroll, hiring, and other HR processes.

Contract Management: This includes the management of contracts with vendors and customers

And considering that the program is open source and has a variety of plugins made by the community, its scalability and different functionalities are quite wide, as it even allows you to create your own plugins and windows as needed.

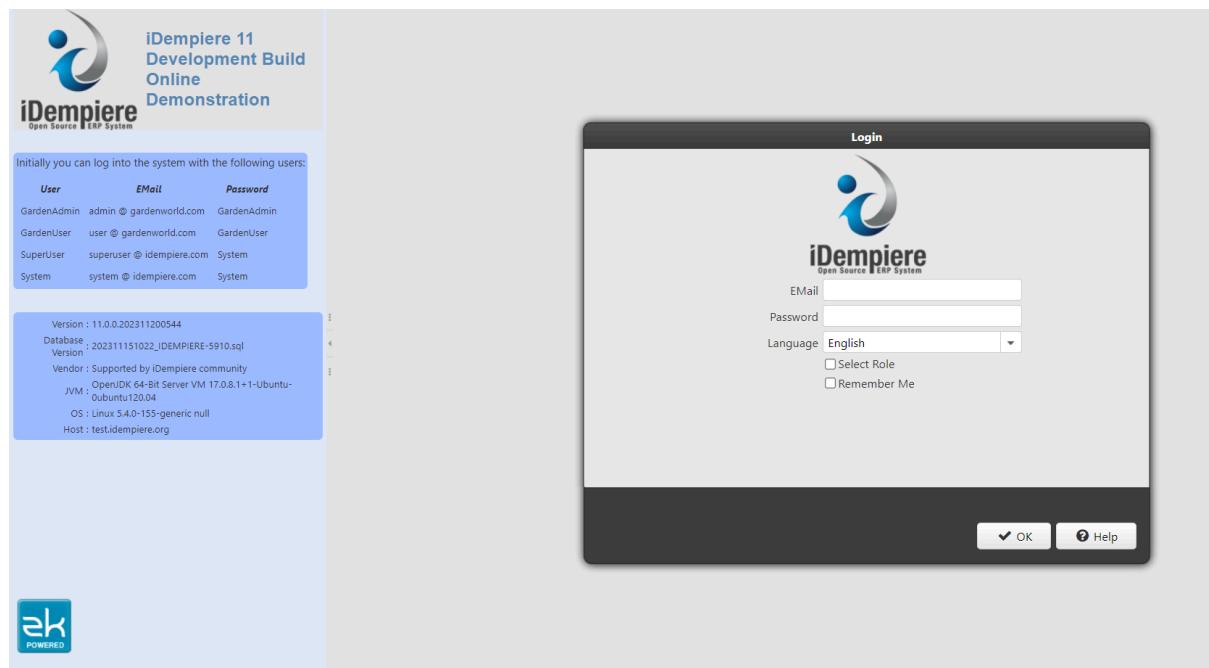
5.2.3 Characteristics

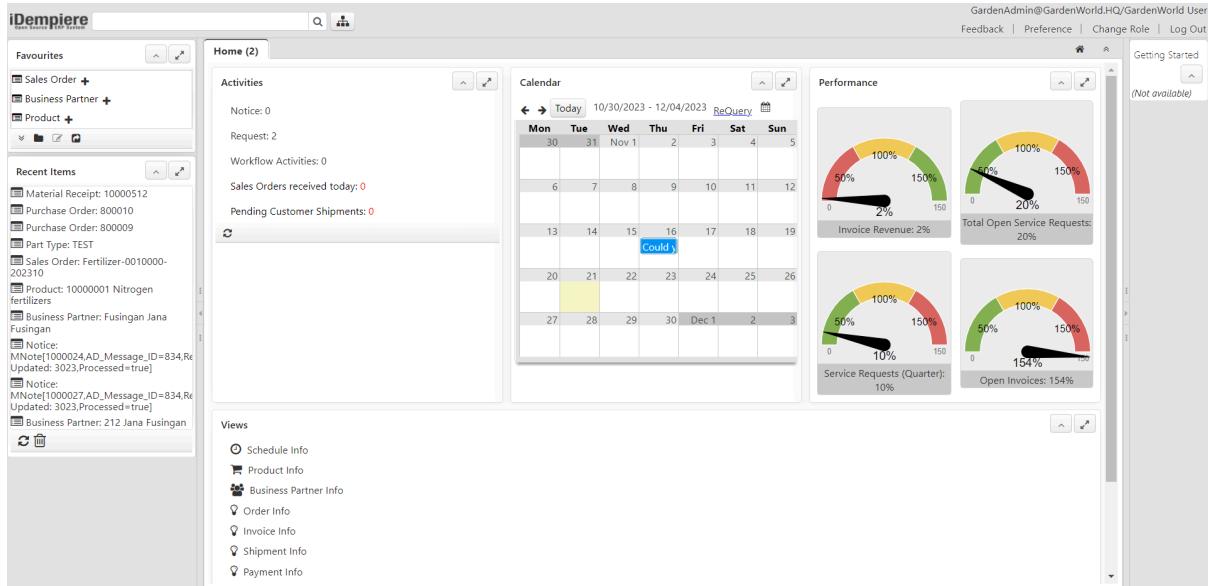
iDempiere is a comprehensive open-source ERP software suite that offers a wide range of functionalities. Here are some of the principal characteristics of this ERP:

- 1. Open Source:** iDempiere is open-source software, which means it's free to use and Edit.
- 2. Scalable:** It can be easily adapted to businesses of any size.
- 3. Multi-platform:** It can be used on Windows, Linux, and Mac operating systems.
- 4. Integrated:** It supports out-of-the-box features for ERP, CRM, and SCM.
- 5. Reliable and Robust:** It is a high-quality, reliable, robust, and extensible system.
- 6. Multi-tenant, Multi-organization, and Multi-currency:** iDempiere allows businesses to globalize with features like multiple tenants, multiple organizations, and multiple currencies in one instance.
- 7. Web-based Sales and Marketing Module:** This module helps businesses grow by conducting activities like marketing campaigns, sales requests, sales orders, shipments, sales invoices, and many more.
- 8. Plugin Support:** Plugins can be used to expand the functionality. There are tons of plugins available in the market.
- 9. Community Support:** iDempiere is fully assisted by active communities that actively enhance and improve the system.

5.2.4 Demo screens

Login Screen





The workspace of iDempiere presents us with four sections.

On the top left side, we find the logo, which gives us information about the program, such as the system, creators, and user, followed by the search box and the menu. On the right, we find our user and configuration items. In the lower part, we have three more sections, divided into the central, larger, and two side sections.

All of them are foldable, and we can make them occupy the entire screen.

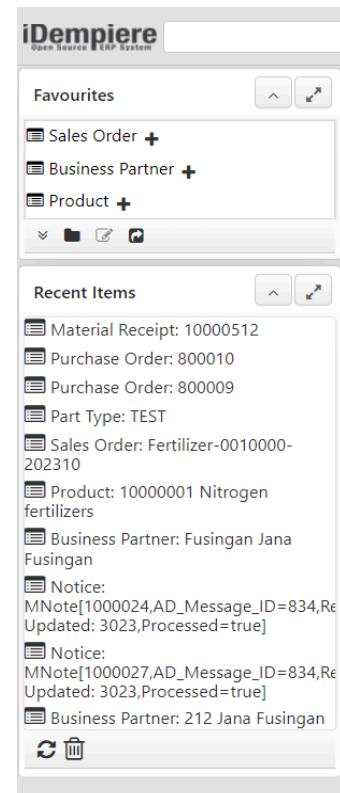
Left Panel

The first panel we find is that of favorites; it is a panel where we can add direct access from the menu.

To Edit the panel, we open the menu, unfold it, and drag the section that interests us to favorites.

To remove from the favorite panel, we put a button on top, a second button, and delete.

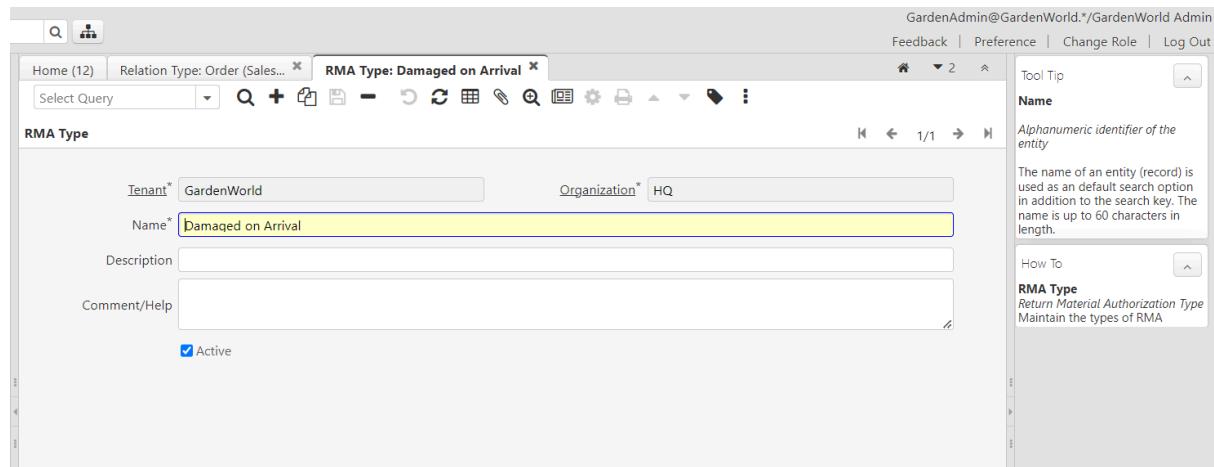
At the bottom, we have the recent records, which, as their name suggests, automatically store the last moves we have made and save for direct access.



Right Panel and center panel

In this panel, depending on the window you are working with, help or tooltips will appear to help you fill in the fields if necessary. The center is the main work panel, where we find the options selected by us; that is to say, we can add and personalize the main panel to our preference.

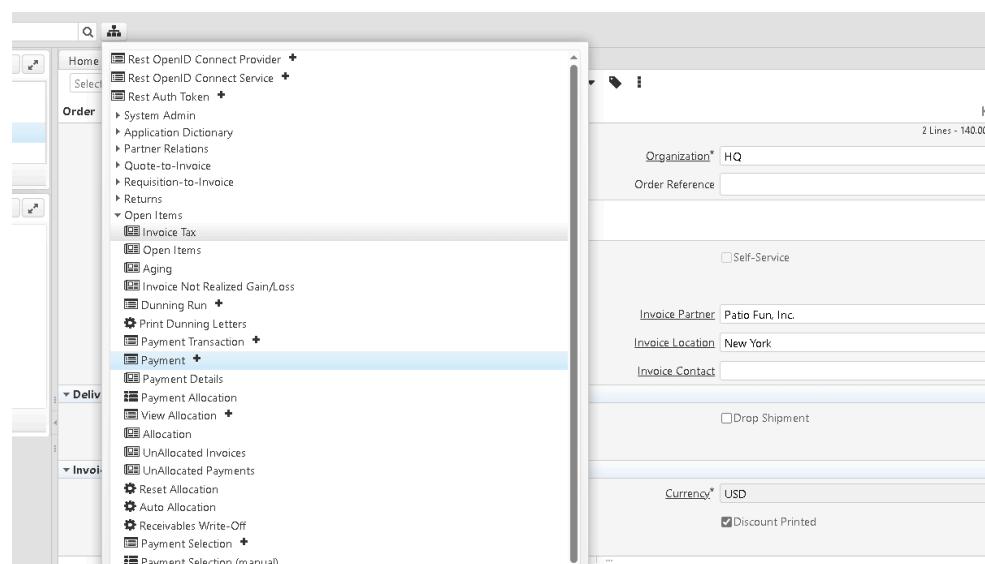
We can plan our projects thanks to the calendar and the visible activities module, which show us the pending activities, notices, and requests that are in progress.



IDempiere contains hundreds of modules that allow us to manage in different ways the company that we will run with our ERP, both in the forms section where we can manage and detail the information that we carry within the program as well as information and documentation of this, helping even novice users to understand the sections of the section that is working in question.

Cash order process:

This module contains items to facilitate the sale of products and keep in order all sales, shipments made, contacts and potential customers. Quotations, sales orders, sales invoices, shipments, sales representative dashboards and sales reports are many of the sections in this section, allowing us to create and edit any of these easily and quickly.



Sales Order: 80018 *

Order

Tenant*	GardenWorld	Organization*	HQ
Document No	80018	Order Reference	
Description			
Target Document Type*	POS Order	<input type="checkbox"/> Self-Service	
Date Ordered*	11/16/2023	<input type="checkbox"/> Drop Shipment	
Business Partner*	Patio Fun, Inc.	Invoice Partner	Patio Fun, Inc.
Partner Location*	New York	Invoice Location	New York
User/Contact		Invoice Contact	

Delivery

Warehouse*	HQ Warehouse	<input type="checkbox"/> Discount Printed
Delivery Via*	Pickup	

Invoicing

Price List*	Standard	Currency*	USD
Sales Representative*	GardenUser	<input checked="" type="checkbox"/> Printed	
Payment Rule*	Cash		

Order Line Order Tax Payment Schedule

+ - * 2 Records

Organization	Order	Business Partner	Partner Location	Date Promised	Date Ordered	Line No	Warehouse	Product
<input checked="" type="checkbox"/> HQ	80018_11/16/2023					10		Travel_Travel cost
<input type="checkbox"/> HQ	80018_11/16/2023					20		Mary_Mary Consultant

Materials Management

It allows us to manage the production and transport of materials that the company needs to use or export to others, allowing us to keep track of the manufacturing and goods that these entail.

- ▼ Material Management
 - Material Management Rules
 - Product Attributes
 - Material Transactions
 - Transaction Detail
 - Product Transaction Value
 - Product Transaction Summary
 - Inventory Move +
 - Move Confirmation +
 - Physical Inventory +
 - Internal Use Inventory +
 - Cost Adjustment +
 - Replenish Report
 - Ship/Receipt Confirm +
 - Open Confirmations
 - Open Confirmation Details
 - Storage Detail
 - Storage per Product
 - BOM Drop
 - ⚙ Storage Cleanup
 - ⚙ Recreate Storage Reservation
 - Inventory Valuation Report
 - Material Reference

Relationships with third parties

It contains sections for the administration of requests for either guarantees, complaints, or claims, with different items to define the type of request, the category, the status, and the response given.

- ▼ Partner Relations
 - Business Partner Rules
 - ❖ Business Partner Setup
 - Business Partner Group +
 - Greeting +
 - Payment Term +
 - Invoice Schedule +
 - Dunning +
 - Business Partner +
 - Business Partner Info +
 - Business Partner Detail
 - Business Partner Open
 - ⚙ Validate Business Partner
 - ⚙ Business Partner Organization
 - Partner Relation +
 - Revenue Recognition +
 - ⚙ UnLink Business Partner Org
 - Position Category +
 - Position +
 - Service
 - Request
 - Request +
 - Sales Rep Info +
 - Mail Template +
 - ⚙ Send Mail Text

The screenshot shows a software application window with a toolbar at the top containing icons for Home (12), Posting, Payment, Sales Order: 80018, Request: 10000002, Select Query, and various search and filter options. The main area is titled 'Request' and contains two sections: 'Request' and 'Action'. The 'Request' section includes fields for Tenant (GardenWorld), Document No (10000002), Request Type (Service Request), Category (Cutting), Status (1_Open), Priority (Medium), Summary ('Could you please trim the trees for me?'), Organization (HQ), Due type (Due), Group (Trees), Related Request, Resolution, User Importance (Medium), Confidentiality (Public Information), and checkboxes for Invoiced, Escalated, Self-Service. The 'Action' section includes fields for Sales Representative (GardenAdmin), Role, Date Next Action, Entry Confidentiality (Public Information), Standard Response, Mail Template, and Result. Below these sections is a 'Updates' tab with a history of 1 record, showing details like Tenant (GardenWorld), Organization (HQ), Request (10000002), Entry Confidentiality (Partner Confidential), Created (07/18/2005), Created By (SuperUser), and Result ('Some Unicode test: Some Extended Character...').

Performance analysis

With the help of this module, we can visualize the performance of the tasks we are carrying out with the help of graphs, diagrams, and indicators. We also find an option to see the accounting dimensions, the exchange rate, type of document, and currency.

- ▼ Performance Analysis
 - ▶ Accounting Rules
 - ▶ Financial Reporting
 - ▶ Performance Measurement
 - ▶ Costing
 - GL Journal +
 - GL Journal Batch +
 - Automatic account reconciliation
 - Accounting Fact Details +
 - Accounting Fact Reconciliation (manual)
 - Accounting Fact Details
 - Unreconciled accounting facts
 - Accounting Fact Balances +
 - Accounting Fact Daily
 - Accounting Fact Period
 - Simple Fact View
 - GL Journal Generator +
 - Revenue Recognition Run



5.3 Tryton (Marc)

ERP name: Tryton

Current version: 7.0

Company or organization: Cédric Krier and the Tryton community

Creation year and country: 2008, Belgium

URL: <https://www.tryton.org/>

5.3.1 Configuration

Tryton has a Three-tier architecture. It is composed of an application server which connects to a PostgreSQL database, a web or desktop client for the presentation and a set of server modules for the business logic.

The required specifications are to get installed Python and PostgreSQL.

Tryton has a free demo trial to test it. There are demo credentials in different languages available provided by the website.

5.3.2 Functionalities

Account: Handles financial accounting, including charts of accounts, general ledger, balance sheets, and more.

Sale: Manages sales processes, including quotations, orders, pricing, and invoicing.

Purchase: Deals with procurement activities, managing supplier information, purchase orders, and invoicing.

Inventory: Tracks inventory levels, movements, stock locations, and manages inventory valuation.

Product: Handles product information, such as product variants, categories, attributes, and pricing.

Company: Provides tools to manage company information, including organizational structures, departments, and contact details.

Party: Manages contact details and information about customers, suppliers, and other business entities.

Project: Allows project planning, resource allocation, task management, and time tracking.

Timesheet: Tracks employees' work hours, timesheets, and attendance.

Account Invoice: Handles invoicing processes, generating and managing invoices.

Analytic Account: Deals with analytical accounting, enabling cost allocation, budgeting, and performance analysis.

Account Asset: Manages fixed assets, depreciation methods, and asset tracking.

Account Tax: Manages taxation rules and calculations for sales, purchases, and other financial transactions.

Country: Provides country-specific configurations, such as tax codes, addresses, and legal requirements.

Currency: Manages multi-currency transactions, exchange rates, and currency conversions.

Production: Deals with manufacturing processes, including bills of materials, work centers, production orders, and scheduling.

Expense: Handles employee expenses, reimbursements, and expense reporting.

Bank: Manages bank accounts, transactions, reconciliation, and statement imports.

Stock Lot: Tracks and manages lots or batches of products through the supply chain.

Tryton Health: Monitors the health and status of the Tryton server.

5.3.3 Characteristics

Type of license: GPL version 3.

Platforms on which it can work: As a Python-based system, it doesn't have direct integrations with other frameworks, but it does offer flexibility through its API and a modular structure, allowing it to interact with various systems and frameworks.

Have an online version: Doesn't have an official online version, but has an online demo version.

Language or languages in which it is developed: Developed in Python and uses PostgreSQL for interacting with databases.

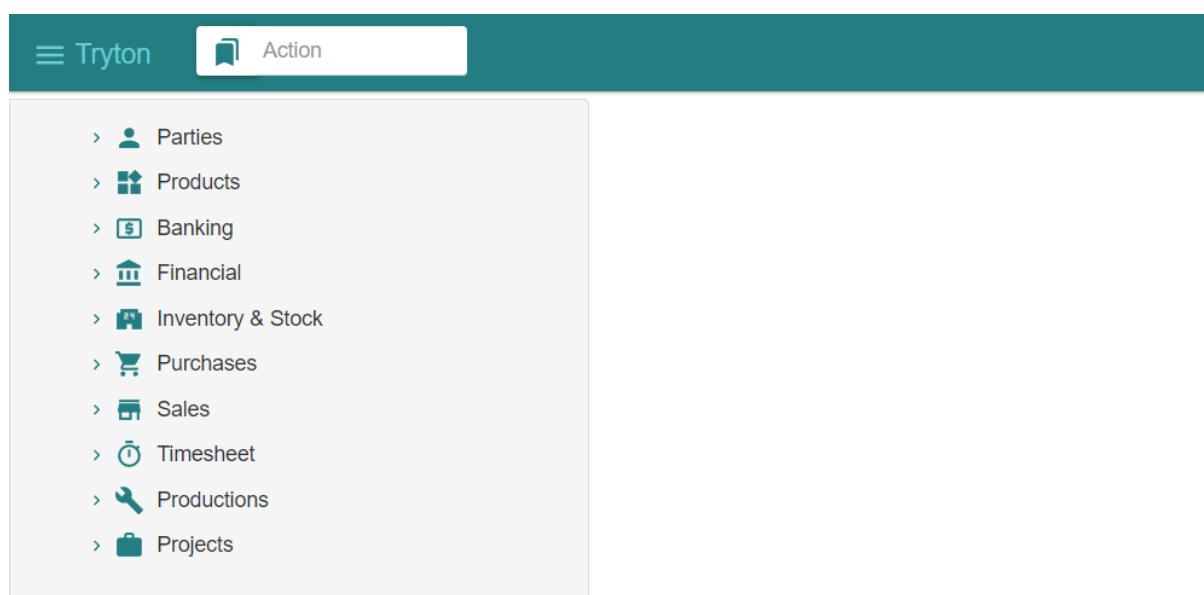
Includes CRM: Yes.

It's completely free or includes some payment option: Tryton ERP itself is an open-source software and is available completely free of cost under the GPL, so you can download, use, and Edit the software without any licensing fees. However, while the core Tryton ERP is free, there might be costs associated with customization, development, support, maintenance, hosting and infrastructure.

Customizable: Yes, you can create your own modules.

5.3.4 Demo screens

Here there is the different modulus it has on the free demo version:



Parties: All related to the parties, purchases, sales, their addresses information and contact mechanisms.

Tryton Action Parties

Parties

FILTERS Search

Code	Name	Tax Identifier	Receivable Today	Payable Today
15	[15]	USD	0.00	USD 0.00
18	[18]	USD	0.00	USD 0.00
2	Albright Memorial Library	USD	0.00	USD 0.00
13	Angela Martin	USD	0.00	USD 0.00
14	Charles Miner	USD	0.00	USD 0.00
3	Cooper's Seafood House	USD	0.00	USD 0.00
9	Dunder Mifflin Inc	USD	0.00	USD 0.00
10	Dunder Mifflin Scranton	USD	0.00	USD 0.00
12	Dwight Schrute	USD	0.00	USD 0.00
1	Electric City Trolley Museum Association	USD	368.65	USD 0.00
11	Jim Halper	USD	0.00	USD 0.00
17	Max Muster	USD	0.00	USD 0.00
6	Michael Scott	USD	0.00	USD 0.00

Tryton Action Parties

Parties associated to Purchases

Parties associated to Sales

Parties associated to Purchases

FILTERS Search

Code	Name	Tax Identifier	Receivable Today	Payable Today
4	Saber	USD	0.00	USD -10,340.00

Tryton Action Parties

Parties / Addresses

Parties associated to Purchases

Parties associated to Sales

Addresses

FILTERS Search

Party	Party Name	Building Name	Street	Postal Code	City	Country	Subc
[15]							
[18]							
Albright Memorial Library			500 Vine Street	18509	Scranton	us United S...	Penn
Angela Martin							
Charles Miner							
Cooper's Seafood House			701 North Washington Avenue	18509	Scranton	us United S...	Penn
Dunder Mifflin Inc							
Dunder Mifflin Scranton							
Dwight Schrute							
Electric City Trolley Museu...			300 Cliff Street of mine	18503	Scranton	us United S...	Penn

Parties / Contact Mechanisms

Type	Value	Name	Party	Address
Phone	+1 570-348-3000		Albright Memorial Library	
Website	http://www.albright.org/		Albright Memorial Library	
Phone	+1 570-346-6883		Cooper's Seafood House	
Phone	+1 570-963-6590		Electric City Trolley Museum Association	
Website	http://www.ectma.org/		Electric City Trolley Museum Association	
SIP			Electric City Trolley Museum Association	
Phone	+49 7046 33675856	Max Muster	Max Muster	
E-Mail	maxmuster@maxmuster.de	Max Muster	Max Muster	
Phone	+41 32 125 56 67		Vorname Nachname	
E-Mail	test@test.de		Vorname Nachname	

Products: It includes variants, suppliers, customers and categories for all the products.

Products

Code	Name	List Price	Cost Price	Default UoM	Type
PAP	A3 Paper 250	5.0500		Unit	Goods
	100平开门	580.0000	380.0000	Square meter	Goods
	A3 Paper 500	10.2010	5.0000	Unit	Goods
	A4 Paper 250	5.0500	2.5000	Unit	Goods
	A4 Paper 500	10.2010	5.0000	Unit	Goods
	A5 Paper 250	5.0500	2.5000	Unit	Goods
	A5 Paper 500	10.2010	5.0000	Unit	Goods
	Computer	750.0000	0.0000	Unit	Goods
	Keyboard	30.0000	0.0000	Unit	Goods
	Ledger Paper 250	5.0500	2.5000	Unit	Goods
	Ledger Paper 500	10.2010	5.0000	Unit	Goods
	Legal Paper 250	5.0500	2.5000	Unit	Goods
	Legal Paper 500	10.2010	5.0000	Unit	Goods

The screenshot shows the Tryton interface for managing products and categories. The top navigation bar includes tabs for Action, Products, Suppliers, Customers, Categories, and Demo_es [USD]. The left sidebar contains a navigation tree with categories such as Parties, Products, Banking, Financial, Inventory & Stock, Purchases, Sales, Timesheet, Productions, and Projects. The main content area is titled 'Products / Categories' and shows a list of categories with various filters applied.

Banking: Manage all the bank information as different banks, your accounts and SEPA Mandates.

The screenshot shows the Tryton interface for managing banking information. The top navigation bar includes tabs for Action, Banks, Accounts, SEPA Mandates, and Demo_es [USD]. The left sidebar contains a navigation tree with categories such as Parties, Products, Banking (Banks, Accounts, SEPA Mandates), Financial, Inventory & Stock, Purchases, Sales, Timesheet, Productions, and Projects. The main content area is titled 'Banking / Banks' and shows a list of banks with filters for Party and BIC.

Financial: Manage all the financial documentation and transactions as invoices, payments, entries, statements, processing and reporting.

The screenshot shows the Tryton interface for managing financial documentation. The top navigation bar includes tabs for Action, Customer Invoices, and Demo_es [USD]. The left sidebar contains a navigation tree with categories such as Parties, Products, Banking, Financial (Invoices, Payments, Entries, Statements, Processing, Reporting), Inventory & Stock, Purchases, Sales, Timesheet, Productions, and Projects. The main content area is titled 'Financial / Invoices / Customer Invoices' and shows a list of customer invoices with filters for Draft, Validated, and Posted status.

Tryton Action Receivable Payments Lines to Pay Payable Payments Demo_es [USD]

Financial / Payments / Payable Payments -

FILTERS Search Draft 3 To Approve 0 To Process 0 Processing 0 All

Journal	Party	SEPA Info ID	Amount	Date	Draft	Submit
Manual	Saber		USD 185.00	11/03/2023	<input type="button" value="> SUB."/>	
Manual	Saber		USD 1,402.50	11/02/2023	<input type="button" value="> SUB."/>	
Manual	Saber		USD 2,875.00	10/30/2023	<input type="button" value="> SUB."/>	

Tryton Action Journals - Periods Account Moves Demo_es [USD]

Financial / Entries / Journals - Periods -

FILTERS State: Open

Journal	Period	State
Revenue	2023-09	Open
Expense	2023-09	Open
Expense	2023-10	Open
Revenue	2023-10	Open
Bank	2023-10	Open
Revenue	2023-11	Open

Tryton Action Journals - Periods Account Moves Demo_es [USD]

Financial / Entries / Account Moves -

FILTERS "Created at": >=11/21/2022

Number	Journal	Effective Date	Origin	State	Post
22	Revenue	11/22/2023	Invoice_6	Posted	
6	Bank	10/20/2023	Account Statement_001	Draft	<input type="button" value="POST"/>
8	Bank	10/15/2023	Account Statement_001	Draft	<input type="button" value="POST"/>
7	Bank	10/15/2023	Account Statement_001	Draft	<input type="button" value="POST"/>
20	Expense	10/04/2023	Invoice_5	Posted	
19	Revenue	10/04/2023	Invoice_5	Posted	
18	Expense	10/04/2023	Invoice_4	Posted	
17	Revenue	10/03/2023	Invoice_4	Posted	
16	Expense	10/03/2023	Invoice_3	Posted	
5	Bank	10/01/2023	Account Statement_001	Draft	<input type="button" value="POST"/>
15	Revenue	09/30/2023	Invoice_3	Posted	
14	Expense	09/30/2023	Invoice_2	Posted	
13	Revenue	09/30/2023	Invoice_2	Posted	

Tryton Action Statements Line Groups Demo_es [USD]

Financial / Statements / Statements / Line Groups

FILTERS Search

Journal	Statement	Number	Date	Amount	Party	Move
Bank	001	1	10/20/2023	USD 1,653.78	Cooper's Seafood ...	6
Bank	001	4	10/15/2023	USD 1,479.96	Electric City Trolle...	7
Bank	001	5	10/15/2023	USD 648.52	Cooper's Seafood ...	8
Bank	001	0	10/01/2023	USD 2,309.37	Cooper's Seafood ...	5

Tryton Action Analytic Lines to Complete Close Journals - Periods Close Periods Close Fiscal Years Demo_es [USD]

Financial / Processing / Analytic Lines to Complete

FILTERS Search

Move	Effective Date	Account	Party	Debit	Credit	Apply Analytic Rules
20	10/04/2023	Main Payable	Saber	USD 0.00	USD 185.00	APPLY A...
20	10/04/2023	Main Expense		USD 185.00	USD 0.00	APPLY A...
19	10/04/2023	Main Receivable	Electric City Trolley Museum ...	USD 368.65	USD 0.00	APPLY A...
19	10/04/2023	Main Revenue		USD 0.00	USD 232.30	APPLY A...
19	10/04/2023	Main Revenue		USD 0.00	USD 136.35	APPLY A...
18	10/04/2023	Main Payable	Saber	USD 0.00	USD 2,940.00	APPLY A...
18	10/04/2023	Main Expense		USD 140.00	USD 0.00	APPLY A...
18	10/04/2023	Main Expense		USD 230.00	USD 0.00	APPLY A...
18	10/04/2023	Main Expense		USD 135.00	USD 0.00	APPLY A...
18	10/04/2023	Main Expense		USD 55.00	USD 0.00	APPLY A...
				0.00	0.00	
				16,800.28	16,800.28	

Tryton Action Analytic Lines to Complete Close Journals - Periods Close Periods Close Fiscal Years Demo_es [USD]

Financial / Processing / Close Periods

FILTERS State: Open

Name	Type	Re-Open	Close	Lock
2022-01	Standard		CLOSE	
2022-02	Standard		CLOSE	
2022-03	Standard		CLOSE	
2022-04	Standard		CLOSE	
2022-05	Standard		CLOSE	
2022-06	Standard		CLOSE	
2022-07	Standard		CLOSE	
2022-08	Standard		CLOSE	
2022-09	Standard		CLOSE	
2022-10	Standard		CLOSE	
2022-11	Standard		CLOSE	
2022-12	Standard		CLOSE	
2023-01	Standard		CLOSE	

Inventory and Stock: To manage the shipments, inventories, warehouse and locations of your products.

Tryton Action Locations Supplier ... Supplier ... Customer... Customer... Locations Internal S... Demo_es [USD]

Inventory & Stock / Shipments / Supplier Shipments

FILTERS Search Draft 0 Received 0 All

Number	Reference	Planned Date	Effective Date	Warehouse	Supplier

Parties Products Banking Financial Inventory & Stock Shipments Supplier Shipments Supplier Returns Customer Shipments Customer Returns Internal Shipments Inventories Warehouses Locations Locations Purchases Sales Timesheet Productions Projects

Tryton Action Inventories Warehouse Locations Supplier ... Supplier ... Customer... Customer... Locations Demo_es [USD]

Inventory & Stock / Inventories

FILTERS "Created at": >=11/21/2022 Draft 1 All

Number	Location	Date
1	Input Zone	11/21/2023

Parties Products Banking Financial Inventory & Stock Shipments Supplier Shipments Supplier Returns Customer Shipments Customer Returns Internal Shipments Inventories Warehouses Locations Locations Purchases Sales Timesheet

Tryton Action Inventories Warehouse Locations Supplier ... Supplier ... Customer... Customer... Locations Demo_es [USD]

Inventory & Stock / Warehouses

FILTERS Search Name Warehouse

Name

Parties Products Banking Financial Inventory & Stock Shipments Supplier Shipments Supplier Returns Customer Shipments Customer Returns Internal Shipments Inventories Warehouses Locations Locations Purchases Sales Timesheet

Inventory & Stock / Locations

FILTERS Search

Name	Type
Customer	Customer
Input Zone	Storage
Lost and Found	Lost and Found
Output Zone	Storage
Production	Production
Storage Zone	Storage
Supplier	Supplier
Transit	Storage
Warehouse	Warehouse

Purchases: List of purchases.

Purchases

FILTERS Search

Draft	Quotation	Confirmed	Processing	Exception	All
1	1	0	5	0	All

Number	Revision	Reference	Purchase Date	Party	Untaxed	Invoice State	Shipment State
08/31/2023	Saber	USD 1,307...	None	None			

Sales: Leads and opportunities, sales and products.

Sales

FILTERS Search

Draft 20 Quotation 18 Confirmed 0 Processing 34 Exception 0 All

	Number	Revision	Sale Date	Party	Shipment State	Invoice State
<input type="checkbox"/>	61	1	11/23/2023	Angela Martin	USD	111.10
<input type="checkbox"/>			11/17/2023	Cooper's Seafood House	USD	257.55
<input type="checkbox"/>			11/06/2023	Albright Memorial Library	USD	654.88
<input type="checkbox"/>			11/03/2023	Electric City Trolley Museum Association	USD	2,257.25
<input type="checkbox"/>			10/31/2023	Albright Memorial Library	USD	1,095.95
<input type="checkbox"/>			10/25/2023	Albright Memorial Library	USD	410.87
<input type="checkbox"/>			10/19/2023	Electric City Trolley Museum Association	USD	1,811.33
<input type="checkbox"/>			10/12/2023	Cooper's Seafood House	USD	510.05
<input type="checkbox"/>			10/09/2023	Albright Memorial Library	USD	2,004.75
<input type="checkbox"/>			09/30/2023	Albright Memorial Library	USD	2,345.63
<input type="checkbox"/>			09/25/2023	Electric City Trolley Museum Association	USD	609.54

Timesheet: Manage the task schedule.

Lines

FILTERS Search

	Employee	Date	Duration	Work	Description
<input type="checkbox"/>	Ryan Howard	10/30/2023	03:00	Calendar/design	
<input type="checkbox"/>	Ryan Howard	10/30/2023	06:00	Secretary	
<input type="checkbox"/>	Ryan Howard	10/30/2023	04:00	Website/setup	
<input type="checkbox"/>	Ryan Howard	10/30/2023	01:00	Website/setup	
<input type="checkbox"/>	Michael Scott	10/30/2023	03:00	Website/design	
<input type="checkbox"/>	Pam Beesly	10/27/2023	05:00	Marketing	
<input type="checkbox"/>	Pam Beesly	10/27/2023	02:00	Secretary	
<input type="checkbox"/>	Pam Beesly	10/27/2023	1d	Marketing	
<input type="checkbox"/>	Pam Beesly	10/27/2023	07:00	Accounting	
<input type="checkbox"/>	Pam Beesly	10/27/2023	07:00	Website/design	
<input type="checkbox"/>	Michael Scott	10/27/2023	03:00	Marketing	
<input type="checkbox"/>	Michael Scott	10/27/2023	05:00	Secretary	

Productions: production and works.

Production	Operation	Work Center
27	Assemble pieces	Line 3 / Assembly Line 3
27	Install software	Line 3 / Installation Line 3
27	Test	Line 3 / Installation Line 3
27	Package	Line 3 / Packaging Line 3
29	Install software	Line 1 / Installation Line 1

Projects: Manage the projects and tasks.

Record Name	Duration	Total Effort	Total Progress
Website	2M 07:00	9M 1w 2d 05:00	49.48%
Labels	3w 2d 02:00	2M 1w 02:00	40.00%
Calendar	2w 3d 02:00	2M 2d 03:00	85.00%

Record Name	Duration	Total Effort	Total Progress
Websiteanalysis	2w 1d 06:00	3M 2w 2d 03:00	0.00%
Website/design	2w 4d	2M 1w 3d 05:00	95.00%
Website/setup	3w 01:00	3M 1w 1d 05:00	70.00%
Labels/design	3w 2d 02:00	2M 1w 02:00	40.00%
Calendar/design	2w 3d 02:00	2M 2d 03:00	85.00%

6. Requirements

6.1 Functional requirements

6.1.1 RF01: Login and logout

Allows the user to fill in the necessary fields, with their unique verifiers, and to be able to access the application once the credentials have been verified. Once the application has been accessed, the user will be able to log out and close the session.

6.1.2 RF02: Visualize Users Module

Allows to list all users.

6.1.3 RF03: Visualize Customers Module

Allows to list all customers.

6.1.4 RF04: Visualize Activities Module

Allows to list all activities.

6.1.5 RF05: Visualize Communications Module

Allows to list all communications.

6.1.6 RF06: Visualize User Profile

Allows the visualization of the profile from the logged in user.

6.1.7 RF07: Edit User Profile

Allows to edit the name and password of the logged in user.

6.1.8 RF08: Create Concierge User

Allows the creation of a concierge type user.

6.1.9 RF09: View Concierge User

The data from a Concierge user is displayed.

6.1.10 RF10: Edit Concierge User

Allows editing data of a Concierge profile user.

6.1.11 RF11: Delete Concierge User

Allows the deletion of a Concierge profile user.

6.1.12 RF12: Create Monitor User

Allows the creation of a Monitor type user.

6.1.13 RF13: View Monitor User

The data from a Monitor user is displayed.

6.1.14 RF14: Edit Monitor User

Allows editing data of a Monitor profile user.

6.1.15 RF15: Delete Monitor User

Allows the deletion of a Monitor profile user.

6.1.16 RF16: Create Activity Coordinator User

Allows the creation of an Activity Coordinator type user.

6.1.17 RF17: View Activity Coordinator User

The data from an Activity Coordinator user is displayed.

6.1.18 RF18: Edit Activity Coordinator User

Allows editing data of an Activity Coordinator profile user.

6.1.19 RF19: Delete Activity Coordinator User

Allows the deletion of an Activity Coordinator profile user.

6.1.20 RF20: Create Admin User

A user with an Admin profile can be created.

6.1.21 RF21: View Admin User

The data from an Admin user is displayed.

6.1.22 RF22: Edit Admin User

Allows editing data of an Admin profile user.

6.1.23 RF23: Delete Admin User

Allows the deletion of an Admin profile user.

6.1.24 RF24: Create Customer

Grants the possibility to fill all the necessary and optional fields in order to create a new customer.

6.1.25 RF25: View Customer

The data from a Customer is displayed.

6.1.26 RF26: Edit Customer

Allows editing data of a Customer profile.

6.1.27 RF27: Delete Customer

Allows the deletion of a customer.

6.1.28 RF28: Create Activity

Grants the possibility to fill all the necessary and optional fields in order to create a new activity.

6.1.29 RF29: View Activity

The data from the selected Activity is displayed.

6.1.30 RF30: Edit Activity

Allows editing data of an Activity.

6.1.31 RF31: Delete Activity

Allows the deletion of an activity.

6.1.32 RF32: Assign Monitor to Activity

A user with a Monitor profile can be assigned to an activity.

6.1.33 RF33: Enroll Participant

Allows to enroll participants to an activity.

6.1.34 RF34: Create and Send Communication

Allows the creation and sending of a communication to the users or customers.

6.1.35 RF35: View Communication

The content of the selected communication is displayed.

6.1.36 RF36: Filter Users

Allows to apply a filter to view specific users.

6.1.37 RF37: Filter Customers

Allows to apply a filter to view specific customers.

6.1.38 RF38: Filter Activities

Allows to apply a filter to view specific activities.

6.1.39 RF39: Filter Communications

Allows to apply a filter to view specific communications.

6.2 Non-Functional Requirements

6.2.1 RN01: Intuitive Application

Intuitive application and easy to use: Consistency and quick understanding of the available and unavailable functionalities at all times, preventing the user from making functional inconsistencies.

6.2.2 RN02: Cohesive Interface Design

Consistency of colors, fonts, icons, distribution and grouping of components.

6.2.3 RN03: Portability

It must be portable and fully functional in each browser.

6.2.4 RN04: Database Management

MySQL must be used for database management with DAO pattern.

6.2.5 RN05: Graphical User Interface

The GUI must be made with HTML and CSS.

6.2.6 RN06: Use of Spring Boot

Spring Boot must be used.

7. User profiles

7.1 Admin

This is the main user that is allowed to manage every user, module and activity.

Script:

- Can do everything.

7.2 Concierge

This is the user in charge of controlling access to the center for participants assigned to each activity.

Script:

- RF01: Login and logout.
- RF03: Visualize Customers Module.
- RF04: Visualize Activities Module.
- RF06: Visualize User Profile.
- RF07: Edit User Profile.
- RF25: View Customer.

- RF29: View Activity.
- RF37: Filter Customers.
- RF38: Filter Activities.

7.3 Monitor

This user will be the one who attends the activities along with the registered participants, who must be able to access the list of clients to control who attended and ensure that the group remains in the activity until it is finished. Moreover, they will be able to send notifications related to the activities to which they are assigned.

Script:

- RF01: Login and logout
- RF02: Visualize Users Module
- RF03: Visualize Customers Module
- RF04: Visualize Activities Module
- RF05: Visualize Communications Module
- RF06: Visualize User Profile
- RF07: Edit User Profile
- RF25: View Customer
- RF29: View activity
- RF34: Create and Send Communication
- RF35: View Communication
- RF36: Filter Users
- RF37: Filter Customers
- RF38: Filter Activities
- RF39: Filter Communications

7.4 Activities coordinator

This user can manage the activities, such as adding new activities, editing them or deleting them. Can edit different sections related to them, such as places where the activities will take place, transportation that may be necessary... Is also in charge of the customers enrolling in the activities.

Script:

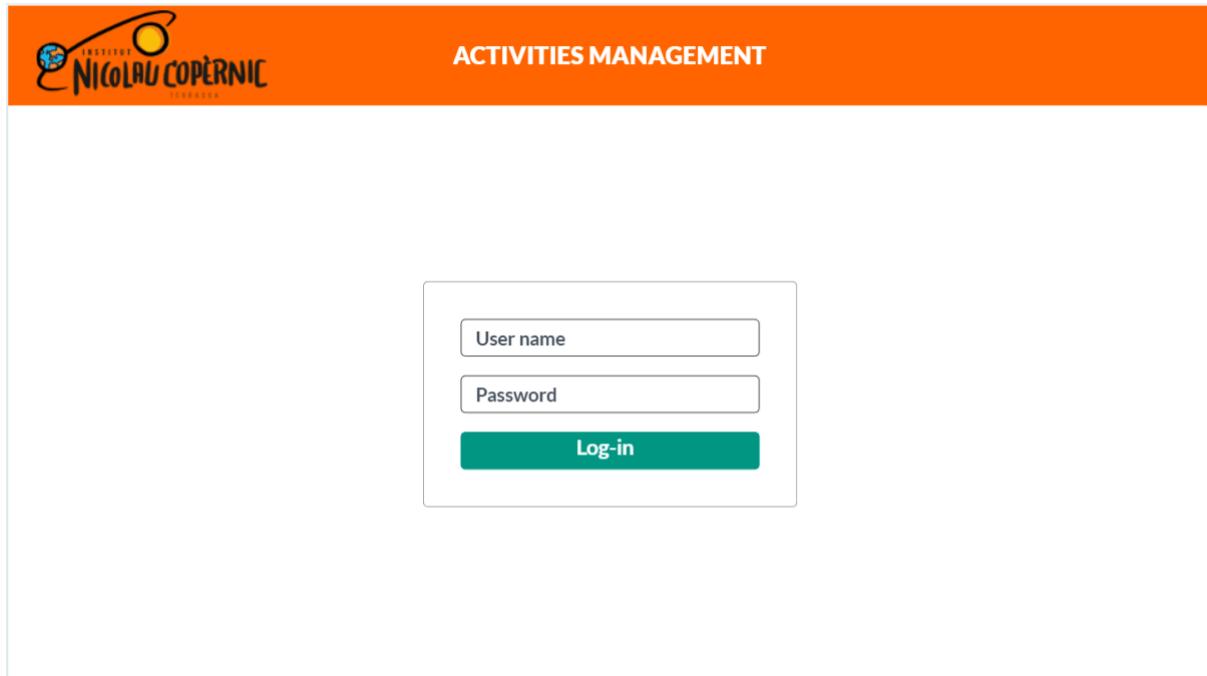
- RF01: Login and logout
- RF02: Visualize Users Module
- RF03: Visualize Customers Module
- RF04: Visualize Activities Module
- RF05: Visualize Communications Module
- RF06: Visualize User Profile
- RF07: Edit User Profile
- RF09: View Concierge User
- RF13: View Monitor User
- RF17: View Activity Coordinator User
- RF21: View Admin User

- RF24: Create Customer
- RF25: View Customer
- RF26: Edit Customer
- RF27: Delete Customer
- RF28: Create Activity
- RF29: View activity
- RF30: Edit Activity
- RF31: Delete Activity
- RF32: Assign Monitor to Activity
- RF33: Enroll Participant
- RF34: Create and Send Communication
- RF35: View Communication
- RF36: Filter Users
- RF37: Filter Customers
- RF38: Filter Activities
- RF39: Filter Communications

8. Mockups

8.1 Users

Login:



The image shows a login screen for a web application. At the top, there is a header bar with an orange background. On the left side of the header is the logo for "INSTITUT NICOLAUS COPERNICUS TECHNIK", which features a stylized sun and planet icon. To the right of the logo, the text "ACTIVITIES MANAGEMENT" is displayed in white capital letters. Below the header, the main content area has a white background. In the center, there is a rectangular form for entering login credentials. It contains three input fields: a top field labeled "User name", a middle field labeled "Password", and a bottom field labeled "Log-in". The "Log-in" button is highlighted with a teal color.

Base view:

The screenshot shows the main interface of the 'ACTIVITIES MANAGEMENT' application. At the top, there is a header bar with the logo of 'INSTITUT NICOLAU COPERNIC TERRASSA' on the left, followed by the title 'ACTIVITIES MANAGEMENT' in the center, and a user profile icon with the word 'Admin' on the right. Below the header, there is a navigation menu with four items: 'Users', 'Customers', 'Activities', and 'Communications'. The 'Activities' item is currently selected, indicated by a blue background. The main content area below the menu is currently empty, showing a light gray background.

User profile:

The screenshot shows the 'User profile' view for the 'Admin' user. The interface is identical to the base view, with the 'INSTITUT NICOLAU COPERNIC TERRASSA' logo, 'ACTIVITIES MANAGEMENT' title, and 'Admin' user profile at the top. The navigation menu shows 'Users', 'Customers', 'Activities' (which is highlighted in orange), and 'Communications'. The main content area displays the user's profile information: the role 'Admin', the title 'Personal Information', the email address 'admin@copernic.cat', and a green 'Edit' button with a pencil icon. The 'Edit' button has a slight shadow effect, indicating it is a primary action button.

Edit user profile:

Personal Information

Name / Surname
Admin

Email
admin@copernic.cat

Role Admin Change password

Photo

Accept Cancel

Change user password:

Personal Information

Name / Surname
Admin

Email
admin@copernic.cat

Role Admin

Photo

Current Password

New Password

New Password

Accept Cancel

Accept Cancel

Users view:

Name/Surname	Role	Action
Jordi Cardenas Guia	Activities Coordinator	Overview
Albert Grau Perise	Monitor	Overview
Manel Orós Cuenca	Monitor	Overview
Concierge 1	Concierge	Overview

User view + Logout:

Name/Surname	Role	Action
Jordi Cardenas Guia	Activities Coordinator	Overview
Albert Grau Perise	Monitor	Overview
Manel Orós Cuenca	Monitor	Overview
Concierge 1	Concierge	Overview

User overview:

The screenshot shows the 'ACTIVITIES MANAGEMENT' application interface. At the top, there is a logo for 'INSTITUT NICOLAU COPERNIC TERRASSA' featuring a stylized sun and planet icon. To the right of the logo is the text 'ACTIVITIES MANAGEMENT'. On the far right, there is a user profile icon labeled 'Admin'.

Below the header, there is a navigation bar with four items: 'Users', 'Customers', 'Activities', and 'Communications'. The 'Users' item is highlighted in orange, indicating the current active page.

The main content area displays a user profile for 'Jordi Cardenas Guia'. It includes a circular profile picture of a man with a beard, his name 'Jordi Cardenas Guia', and the title 'Personal Information'. Below this, there are two sections: 'Email' (jordi.cardenas@copernic.cat) and 'Role' (Activities Coordinator). Underneath these sections are two buttons: a green 'Edit' button and a red 'Delete' button.

Add user:

The screenshot shows the 'ACTIVITIES MANAGEMENT' application interface, similar to the previous one but for adding a new user. The top navigation bar and user profile are identical.

The main content area displays a form for 'New User'. It starts with a placeholder profile picture and the title 'Personal Information'. Below this are fields for 'Name / Surname' (with an input field) and 'Email' (with an input field). Underneath these fields is a 'Role' section containing four buttons: 'Coordinator', 'Monitor', 'Concierge', and 'Admin'. A green 'Photo' button is located below the placeholder profile picture.

At the bottom of the form are two buttons: a green 'Accept' button and a red 'Cancel' button.

Edit user:

The screenshot shows the 'Edit User' page of the 'ACTIVITIES MANAGEMENT' application. At the top, there is a logo for 'INSTITUT NICOLAU COPERNIC TERRASSA' and a navigation bar with links for 'Users', 'Customers', 'Activities', and 'Communications'. The current user is identified as 'Admin' with a profile icon. The main content area is titled 'Personal Information' and contains fields for 'Name / Surname' (Jordi Cardenas Guia), 'Email' (jordi.cardenas@copernic.cat), and a 'Role' dropdown menu containing 'Coordinator', 'Monitor', 'Concierge', and 'Admin'. A 'Photo' button is available to upload a profile picture. At the bottom right are 'Accept' and 'Cancel' buttons.

8.2 Customers

Customers view:

The screenshot shows the 'Customers' view page of the 'ACTIVITIES MANAGEMENT' application. At the top, there is a logo for 'INSTITUT NICOLAU COPERNIC TERRASSA' and a navigation bar with links for 'Users', 'Customers', 'Activities', and 'Communications'. The current user is identified as 'Admin' with a profile icon. The main content area displays a table of customer information. The columns are 'Name/Surname', 'Type', and 'Grade'. The data rows are:

Name/Surname	Type	Grade
Albert Grau Perise	Teacher	
Oscar Bellerino Plaza	Neighbor	
Isabel Barroso de la Fuente	Student	2 DAM M
Yassine Ainous	Student	2 DAM M
Brandon Jiménez Villarroel	Student	2 DAM M
Marc Cristóbal Segura	Neighbor	
Ferran Moyano Fernandez	Student	2 DAM M

Each row includes a 'Overview' button with a magnifying glass icon.

Customer overview:

The screenshot shows the 'ACTIVITIES MANAGEMENT' application interface. At the top, there's a logo for 'INSTITUT NICOLAU COPERNIC TERRASSA' and a navigation bar with 'Admin' and user icons. Below the header, there are tabs for 'Users', 'Customers', 'Activities', and 'Communications'. A breadcrumb navigation shows 'Customers > Brandon Jiménez Villarroel'. The main content area displays a customer profile for 'Brandon Jiménez Villarroel'. It includes a photo, personal information (Email: jimenez.villarroel.brandon@alumnat.copernic.cat, Phone: 654123123, DNI: 12345678A, Date of Birth: 25/04/1998, Type: Student, Grade: 2 DAM M), interests (Cooking, Videogames, Technology, Sports, Cinema), and activities (Indie Games TRS, Introduction to Unity, Berlin Trip, Ramen Workshop). There are 'Edit' and 'Delete' buttons.

Edit customer:

The screenshot shows the 'ACTIVITIES MANAGEMENT' application interface, similar to the previous one but for editing a customer. The header and navigation bar are identical. The breadcrumb navigation shows 'Customers > Edit Customer'. The main content area has a photo placeholder, personal information fields (Name / Surname: Brandon Jiménez Villarroel, Email: jimenez.villarroel.brandon@alumnat.copernic.cat, Phone: 654123123, Date of Birth: 25/04/1998, Parent / Guardian Name (if apply), DNI, Grade (if apply: 2 DAM M), and Type: Student, Teacher, Neighbor), and an 'Interested in' section with a list of interests (Cooking, Videogames, Technology) and an 'Add' button. At the bottom, there are 'Accept' and 'Cancel' buttons.

8.3 Activities

Activities view:

The screenshot shows the 'ACTIVITIES MANAGEMENT' section of the application. At the top, there is a logo for 'INSTITUT NICOLAU COPERNIC TERRASSA'. The navigation bar includes links for 'Users', 'Customers', 'Activities' (which is the active tab), and 'Communications'. On the right, there is an 'Admin' user icon. Below the navigation, there is a search bar and a date range selector. A large orange button labeled 'Add Participants' is prominently displayed. The main area lists eight activities in a grid:

Berlin Trip	Unity Training	ReactJS Training	Spring Framework Training
15th, January 2024 📍 Berlin	27th, November 2023 📍 Online	23th, November 2023 📍 Online	22th, November 2023 📍 Online
Jenkins Training	DevOps Training	Indie Games TRS	
21th, November 2023 📍 Online	20th, November 2023 📍 Online	27th, October 2023 📍 Auditori Terrassa	

Activity overview:

The screenshot shows the detailed view for the 'Berlin Trip' activity. The top header includes the 'ACTIVITIES MANAGEMENT' title and an 'Admin' user icon. The navigation bar shows the current location: 'Activities > Berlin Trip'. The main content area has a teal header with the activity name 'Berlin Trip' and an ID 'ID: 123456789'. Below this, there are several sections with information:

From 15th to 19th January 2024	495 € / 3 payments	📍 Berlin	Capacity: Unlimited
Resources: Bus Terrassa - Barcelona Airport - Terrassa Bus Berlin Airport - Hostel - Berlin Airport Flight Tickets Barcelona - Berlin - Barcelona Berlin Hostel Boocking Pergamonmuseum Tickets Bundestag Tickets Bus to Sachsenhausen Tour	Requirements: Current DNI European Health Card Police permission (minors)	Participants	Edit
		Delete	

Participants list of an activity:

The screenshot shows the 'ACTIVITIES MANAGEMENT' interface for the 'INSTITUT NICOLAU COPERNIC' (Barcelona). The top navigation bar includes links for 'Users', 'Customers', 'Activities' (which is the active tab), and 'Communications'. A search bar and a user profile icon ('Admin') are also present. The main content area displays a table of participants for a 'Berlin Trip' activity. The columns are 'Name/Surname', 'Type', 'Grade', and 'Unenroll' (with a trash can icon). The participants listed are:

Name/Surname	Type	Grade	Unenroll
Albert Grau Perise	Teacher		<input type="checkbox"/>
Oscar Bellerino Plaza	Neighbor		<input type="checkbox"/>
Isabel Barroso de la Fuente	Student	2 DAM M	<input type="checkbox"/>
Yassine Ainous	Student	2 DAM M	<input type="checkbox"/>
Brandon Jiménez Villarroel	Student	2 DAM M	<input type="checkbox"/>
Marc Cristóbal Segura	Neighbor		<input type="checkbox"/>
Ferran Moyano Fernandez	Student	2 DAM M	<input type="checkbox"/>

Unenroll participants from an activity:

The screenshot shows the same 'ACTIVITIES MANAGEMENT' interface. A confirmation dialog box is overlaid on the participant list, asking 'Are you sure you want to unenroll the selection?'. The dialog has 'Accept' and 'Cancel' buttons. The participants listed are the same as in the previous screenshot. The 'Unenroll' column now shows checked boxes for the students whose names have an 'X' in the 'Grade' column.

Name/Surname	Type	Grade	Unenroll
Albert Grau Perise	Teacher		<input type="checkbox"/>
Oscar Bellerino Plaza			<input type="checkbox"/>
Isabel Barroso de la Fuente		X	<input checked="" type="checkbox"/>
Yassine Ainous	Student		<input type="checkbox"/>
Brandon Jiménez Villarroel	Student	Z DAM M	<input type="checkbox"/>
Marc Cristóbal Segura	Neighbor		<input checked="" type="checkbox"/>
Ferran Moyano Fernandez	Student	2 DAM M	<input checked="" type="checkbox"/>

Add activity:

ACTIVITIES MANAGEMENT

Admin

Users Customers Activities Communications

Activities > Add Activity

Information Resources Requirements

Title

Place

Start Date End Date

Payment Activity Yes No Participants Limited Num

Price per person €

Num of payments

Add

Add

Accept **Cancel**

Edit activity:

ACTIVITIES MANAGEMENT

Admin

Users Customers Activities Communications

Activities > Edit Activity

Information Resources Requirements

Title Berlin Trip

Place Berlin

Start Date 15/01/2024 End Date 19/01/2024

Payment Activity Yes No Participants Limited Num

Price per person 439 €

Num of payments 3

Add

Bus Terrassa - Barcelona Airport - Terrassa
Bus Berlin Airport - Hostel - Berlin Airport
Flight Tickets Barcelona - Berlin - Barcelona
Berlin Hostel Booking

Current DNI
European Health Card
Police permission (minors)

Accept **Cancel**

Enroll participants to an activity:



ACTIVITIES MANAGEMENT

Admin


-  Users
-  Customers
-  Activities
-  Communications

[Activities](#) > Add Participant



Photo

Personal Information

Name / Surname

Email

Phone
 Date of Birth
 

Parent / Guardian Name (if apply)

DNI

Grade (if apply)

Interested in



Cooking
 Videogames
 Technology

 Accept
 Cancel

8.4 Communications

Communications view:



ACTIVITIES MANAGEMENT

Admin 

 Users  Customers  Activities  Communications

Communications

Subject	To	Date	
Inscriptions period delayed	All	20/11/2023	
Inscriptions opened	All	10/11/2023	
Students Trip to Berlin	All	05/11/2023	
Indie Games TRS Satisfaction Survey	Indie Games TRS Group	30/10/2023	
Welcome to Indie Games TRS	Indie Games TRS Group	26/10/2023	

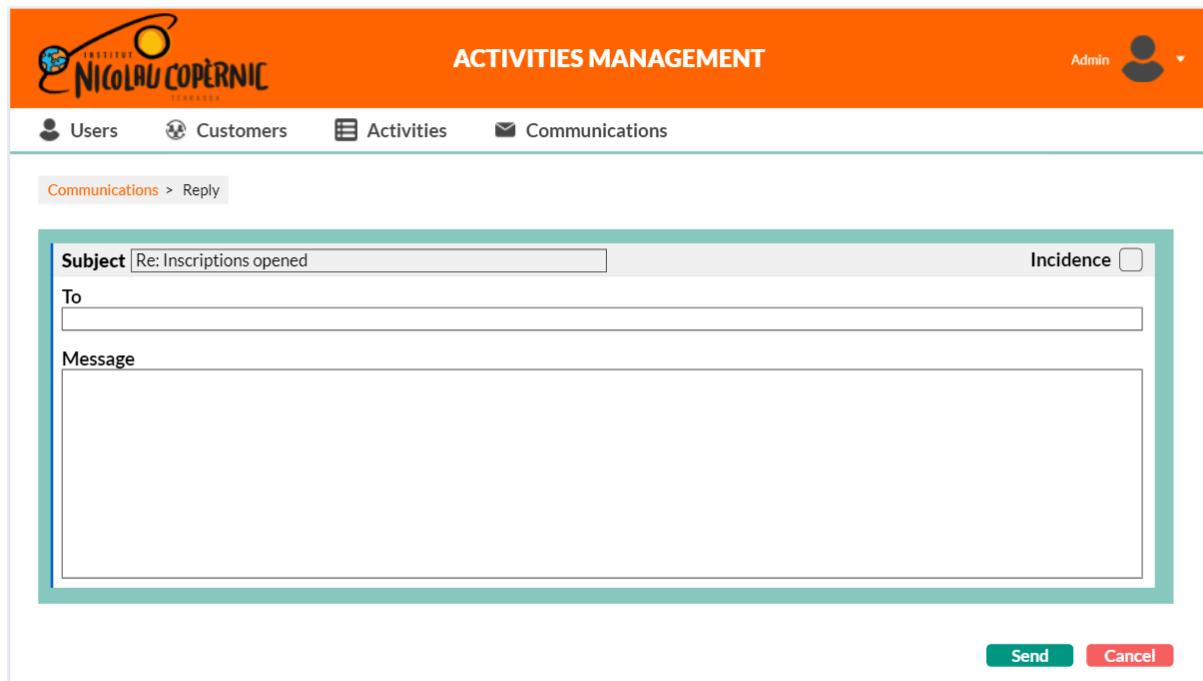
Show message:

The screenshot shows the ACTIVITIES MANAGEMENT interface for the INSTITUT NICOLAU COPERNIC. The top navigation bar includes links for Users, Customers, Activities, and Communications. The Communications section is active, showing a sub-menu for 'Inscriptions opened'. The main content area displays an open communication message titled 'Inscriptions opened' with a 'Reply' button. The 'To' field is set to 'All'. The 'Message' field contains the text: 'The inscriptions to the Berlin trip are now open!'. The entire communication window has a teal border.

Create new message:

The screenshot shows the ACTIVITIES MANAGEMENT interface for the INSTITUT NICOLAU COPERNIC. The top navigation bar includes links for Users, Customers, Activities, and Communications. The Communications section is active, showing a sub-menu for 'New message'. A new message creation form is displayed, featuring fields for 'Subject' (with an 'Incidence' checkbox), 'To' (recipients), and 'Message' (body). At the bottom right of the form are 'Send' and 'Cancel' buttons.

Reply message:



9. Task Planning

9.1 XS

- RF11: Delete Concierge User
- RF15: Delete Monitor User
- RF19: Delete Activity Coordinator User
- RF23: Delete Admin User
- RF27: Delete Customer

9.2 S

- RF31: Delete Activity
- RF06: Visualize User Profile
- RF07: Edit User Profile
- RF09: View Concierge User
- RF10: Edit Concierge User
- RF13: View Monitor User
- RF14: Edit Monitor User
- RF17: View Activity Coordinator User
- RF18: Edit Activity Coordinator User
- RF21: View Admin User
- RF22: Edit Admin User
- RF25: View Customer
- RF26: Edit Customer

RF35: View Communication

9.3 M

- RF01: Login and logout
- RF02: Visualize Users Module
- RF03: Visualize Customers Module
- RF04: Visualize Activities Module
- RF05: Visualize Communications Module
- RF29: View activity
- RF30: Edit Activity
- RF32: Assign Monitor to Activity
- RF08: Create Concierge User
- RF12: Create Monitor User
- RF16: Create Activity Coordinator User
- RF20: Create Admin User
- RF36: Filter Users
- RF37: Filter Customers
- RF38: Filter Activities
- RF39: Filter Communications

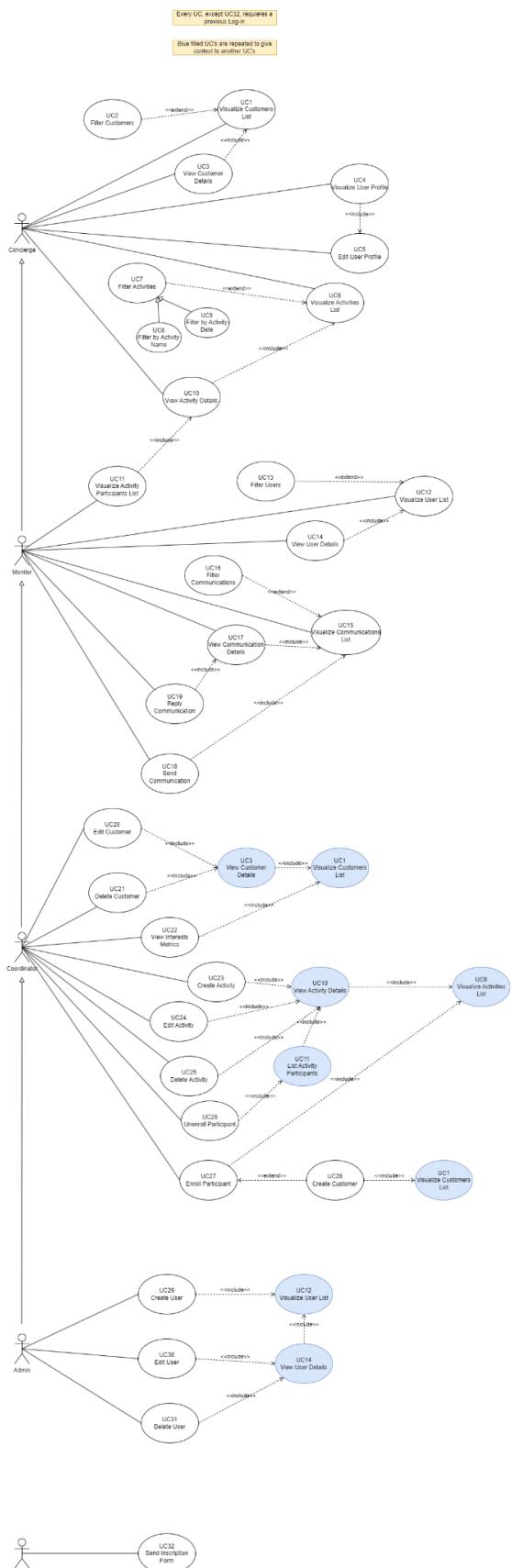
9.4 L

- RF24: Create Customer
- RF28: Create Activity
- RF34: Create and Send Communication

9.5 XL

- RF33: Enroll Participant

10. Use Case Diagram



https://drive.google.com/file/d/1zYr2Eo_NxNLsoYMQevvMnZoOtgxKofJz/view?usp=sharing

11. Requirement Details

ID: UC1
Name: Visualize Customers List
Description: A list of customers is shown to the user.
Actors: Concierge, Monitor, Activity Coordinator and Admin.
Precondition: The user clicked the Customers module button.

ID: UC2						
Name: Filter Customers						
Description: The user applies a filter to view specific customers.						
Actors: Concierge, Monitor, Activity Coordinator and Admin.						
Precondition: The user clicked the Customers module button.						
<table border="1"> <thead> <tr> <th>Normal Flow</th> <th>Alternative Flow</th> </tr> </thead> <tbody> <tr> <td>1. The user writes part of the name of the customer that wants to find in the search bar and clicks the magnifying glass button.</td> <td></td> </tr> <tr> <td>2. The system returns a list of customers whose names match the user's entry as a result.</td> <td>2.1. None of the existing customers match the user's entry, so the system returns the message "No customers found".</td> </tr> </tbody> </table>	Normal Flow	Alternative Flow	1. The user writes part of the name of the customer that wants to find in the search bar and clicks the magnifying glass button.		2. The system returns a list of customers whose names match the user's entry as a result.	2.1. None of the existing customers match the user's entry, so the system returns the message "No customers found".
Normal Flow	Alternative Flow					
1. The user writes part of the name of the customer that wants to find in the search bar and clicks the magnifying glass button.						
2. The system returns a list of customers whose names match the user's entry as a result.	2.1. None of the existing customers match the user's entry, so the system returns the message "No customers found".					
Postcondition: A list of customers that meet the indicated filter is returned.						

ID: UC3						
Name: View Customer Details						
Description: Allows the user to preview the selected customer.						
Actors: Concierge, Monitor, Activity Coordinator and Admin.						
Precondition: Select customers module and at least one customer must have been previously saved.						
<table border="1"> <thead> <tr> <th>Normal Flow</th> <th>Alternative Flow</th> </tr> </thead> <tbody> <tr> <td>1. The user clicks on the "Overview" button from the customer whose data they want to consult.</td> <td></td> </tr> <tr> <td>2. The system displays more detailed information about the selected customer.</td> <td></td> </tr> </tbody> </table>	Normal Flow	Alternative Flow	1. The user clicks on the "Overview" button from the customer whose data they want to consult.		2. The system displays more detailed information about the selected customer.	
Normal Flow	Alternative Flow					
1. The user clicks on the "Overview" button from the customer whose data they want to consult.						
2. The system displays more detailed information about the selected customer.						
Postcondition: The user can consult more detailed data about the selected customer.						

ID: UC4						
Name: Visualize User Profile						
Description: Displays the profile from the logged in user.						
Actors: Concierge, Monitor, Activity Coordinator and Admin.						
Precondition: Select the profile preview of the logged in user.						
<table border="1"> <thead> <tr> <th>Normal Flow</th> <th>Alternative Flow</th> </tr> </thead> <tbody> <tr> <td>1. The user clicks the profile option from the drop-down menu.</td> <td></td> </tr> <tr> <td>2. The system displays all data from the logged in user profile.</td> <td></td> </tr> </tbody> </table>	Normal Flow	Alternative Flow	1. The user clicks the profile option from the drop-down menu.		2. The system displays all data from the logged in user profile.	
Normal Flow	Alternative Flow					
1. The user clicks the profile option from the drop-down menu.						
2. The system displays all data from the logged in user profile.						
Postcondition: The user can consult his own profile.						

ID: UC5													
Name: Edit User Profile													
Description: Allows the user to change his name and password.													
Actors: Concierge, Monitor, Activity Coordinator and Admin.													
Precondition: Select the profile option from the logged in user's drop-down menu.													
<table border="1" data-bbox="198 617 787 1358"> <thead> <tr> <th data-bbox="198 617 787 685">Normal Flow</th><th data-bbox="787 617 1391 685">Alternative Flow</th></tr> </thead> <tbody> <tr> <td data-bbox="198 685 787 853">1a. The user clicks the "Change Password" button. 1b. The user changes his name in the corresponding text field.</td><td data-bbox="787 685 1391 853"></td></tr> <tr> <td data-bbox="198 853 787 1055">2. The system shows a popup with three text fields to allow the user to enter the current password and two times the new password, both of them have to match each other.</td><td data-bbox="787 853 1391 1055"></td></tr> <tr> <td data-bbox="198 1055 787 1156">3. The user types a password in all text fields and clicks the "Accept" button.</td><td data-bbox="787 1055 1391 1156">3.1. The user cancels the process by clicking the "Cancel" button.</td></tr> <tr> <td data-bbox="198 1156 787 1257">4. The system validates that both passwords match.</td><td data-bbox="787 1156 1391 1257">4.1. The two passwords are different so the system informs the user to try it again.</td></tr> <tr> <td data-bbox="198 1257 787 1358">5. The user clicks the "Accept" button to save all changes made in its profile.</td><td data-bbox="787 1257 1391 1358"></td></tr> </tbody> </table>		Normal Flow	Alternative Flow	1a. The user clicks the "Change Password" button. 1b. The user changes his name in the corresponding text field.		2. The system shows a popup with three text fields to allow the user to enter the current password and two times the new password, both of them have to match each other.		3. The user types a password in all text fields and clicks the "Accept" button.	3.1. The user cancels the process by clicking the "Cancel" button.	4. The system validates that both passwords match.	4.1. The two passwords are different so the system informs the user to try it again.	5. The user clicks the "Accept" button to save all changes made in its profile.	
Normal Flow	Alternative Flow												
1a. The user clicks the "Change Password" button. 1b. The user changes his name in the corresponding text field.													
2. The system shows a popup with three text fields to allow the user to enter the current password and two times the new password, both of them have to match each other.													
3. The user types a password in all text fields and clicks the "Accept" button.	3.1. The user cancels the process by clicking the "Cancel" button.												
4. The system validates that both passwords match.	4.1. The two passwords are different so the system informs the user to try it again.												
5. The user clicks the "Accept" button to save all changes made in its profile.													
Postcondition: The new password and/or name is saved.													

ID: UC6				
Name: Visualize Activities List				
Description: A list of activity previews is shown to the user.				
Actors: Concierge, Monitor, Activity Coordinator and Admin.				
Precondition: The user clicked the Activities module button.				
<table border="1"> <thead> <tr> <th>Normal Flow</th> <th>Alternative Flow</th> </tr> </thead> <tbody> <tr> <td>1. The system shows a list of all activities previously saved in the database. From here, the user can filter activities running UC7 (extend) and select activity running UC10 (include). </td> <td></td> </tr> </tbody> </table>	Normal Flow	Alternative Flow	1. The system shows a list of all activities previously saved in the database. From here, the user can filter activities running UC7 (extend) and select activity running UC10 (include).	
Normal Flow	Alternative Flow			
1. The system shows a list of all activities previously saved in the database. From here, the user can filter activities running UC7 (extend) and select activity running UC10 (include).				
Postcondition: The user has access to a list of activities saved in the database.				

ID: UC7				
Name: Filter Activities				
Description: The user applies a filter to view specific activities.				
Actors: Concierge, Monitor, Activity Coordinator and Admin.				
Precondition: Select activities module.				
<table border="1"> <thead> <tr> <th>Normal Flow</th> <th>Alternative Flow</th> </tr> </thead> <tbody> <tr> <td> <p>The user can filter by two different filter ways:</p> <ul style="list-style-type: none"> - filter by activity name running UC8. - filter by activity date running UC9. </td> <td></td> </tr> </tbody> </table>	Normal Flow	Alternative Flow	<p>The user can filter by two different filter ways:</p> <ul style="list-style-type: none"> - filter by activity name running UC8. - filter by activity date running UC9. 	
Normal Flow	Alternative Flow			
<p>The user can filter by two different filter ways:</p> <ul style="list-style-type: none"> - filter by activity name running UC8. - filter by activity date running UC9. 				
Postcondition: Allows the user to filter by two different ways all activities previously saved in the database.				

ID: UC8						
Name: Filter by Activity Name						
Description: The user applies a filter to view specific activities by its name.						
Actors: Concierge, Monitor, Activity Coordinator and Admin.						
Precondition: Select activities module.						
<table border="1"> <thead> <tr> <th>Normal Flow</th> <th>Alternative Flow</th> </tr> </thead> <tbody> <tr> <td>1. The user writes part of the name of the activity that wants to find in the search bar in the right part of the screen and clicks the magnifying glass button.</td> <td></td> </tr> <tr> <td>2. The system returns a list of activities whose names match the user's entry as a result.</td> <td>2.1. None of the existing activities match the user's entry, so the system returns the message "No activities found".</td> </tr> </tbody> </table>	Normal Flow	Alternative Flow	1. The user writes part of the name of the activity that wants to find in the search bar in the right part of the screen and clicks the magnifying glass button.		2. The system returns a list of activities whose names match the user's entry as a result.	2.1. None of the existing activities match the user's entry, so the system returns the message "No activities found".
Normal Flow	Alternative Flow					
1. The user writes part of the name of the activity that wants to find in the search bar in the right part of the screen and clicks the magnifying glass button.						
2. The system returns a list of activities whose names match the user's entry as a result.	2.1. None of the existing activities match the user's entry, so the system returns the message "No activities found".					
Postcondition: A list of the activities that matches the user's entered name is returned.						

ID: UC9						
Name: Filter by Activity Date						
Description: The user applies a filter to view specific activities by its date.						
Actors: Concierge, Monitor, Activity Coordinator and Admin.						
Precondition: Select activities module.						
<table border="1"> <thead> <tr> <th>Normal Flow</th> <th>Alternative Flow</th> </tr> </thead> <tbody> <tr> <td> 1. The user selects a day with the calendar in the right part of the screen to filter all activities by starting day. </td> <td></td> </tr> <tr> <td> 2. The system returns a list of activities whose date matches the user's entry as a result. </td> <td> 2.1. None of the existing activities match the user's entry, so the system returns the message "No activities found". </td> </tr> </tbody> </table>	Normal Flow	Alternative Flow	1. The user selects a day with the calendar in the right part of the screen to filter all activities by starting day.		2. The system returns a list of activities whose date matches the user's entry as a result.	2.1. None of the existing activities match the user's entry, so the system returns the message "No activities found".
Normal Flow	Alternative Flow					
1. The user selects a day with the calendar in the right part of the screen to filter all activities by starting day.						
2. The system returns a list of activities whose date matches the user's entry as a result.	2.1. None of the existing activities match the user's entry, so the system returns the message "No activities found".					
Postcondition: A list of the activities that matches the user's entered date is returned.						

ID: UC10						
Name: View Activity Details						
Description: Allows the user to view more detailed data of the selected activity.						
Actors: Concierge, Monitor, Activity Coordinator and Admin.						
Precondition: Select activities module and at least one activity must have been previously created.						
<table border="1"> <thead> <tr> <th>Normal Flow</th> <th>Alternative Flow</th> </tr> </thead> <tbody> <tr> <td>1. The user clicks on the activity whose data they want to consult.</td> <td></td> </tr> <tr> <td>2. The system displays more details of the selected activity.</td> <td></td> </tr> </tbody> </table>	Normal Flow	Alternative Flow	1. The user clicks on the activity whose data they want to consult.		2. The system displays more details of the selected activity.	
Normal Flow	Alternative Flow					
1. The user clicks on the activity whose data they want to consult.						
2. The system displays more details of the selected activity.						
Postcondition: The user can consult more detailed data about the selected activity.						

ID: UC11						
Name: Visualize Activity Participants List						
Description: Show a list of participants of the selected activity.						
Actors: Monitor, Activity Coordinator and Admin.						
Precondition: Select an activity.						
<table border="1"> <thead> <tr> <th>Normal Flow</th> <th>Alternative Flow</th> </tr> </thead> <tbody> <tr> <td>1. The user clicks the "Participants" button.</td> <td></td> </tr> <tr> <td>2. The system displays a list of participants of the selected activity.</td> <td>2.1. There are no participants enrolled in the activity, so instead of a list of participants, the system displays the text "There are no participants in this activity".</td> </tr> </tbody> </table>	Normal Flow	Alternative Flow	1. The user clicks the "Participants" button.		2. The system displays a list of participants of the selected activity.	2.1. There are no participants enrolled in the activity, so instead of a list of participants, the system displays the text "There are no participants in this activity".
Normal Flow	Alternative Flow					
1. The user clicks the "Participants" button.						
2. The system displays a list of participants of the selected activity.	2.1. There are no participants enrolled in the activity, so instead of a list of participants, the system displays the text "There are no participants in this activity".					
Postcondition: The user can consult which participants are enrolled in the selected activity.						

ID: UC12				
Name: Visualize User List				
Description: A list of users is shown to the user.				
Actors: Monitor, Activity Coordinator and Admin.				
Precondition: The user clicked the Users module button.				
<table border="1"> <thead> <tr> <th>Normal Flow</th> <th>Alternative Flow</th> </tr> </thead> <tbody> <tr> <td>1. The system shows a list of all users previously saved in the database. The user can filter users running UC13 (extend) and select a user running UC14 (include).</td> <td>1.1. There are no users previously saved, so instead of a list of users, the system displays the text "There are no users saved".</td> </tr> </tbody> </table>	Normal Flow	Alternative Flow	1. The system shows a list of all users previously saved in the database. The user can filter users running UC13 (extend) and select a user running UC14 (include).	1.1. There are no users previously saved, so instead of a list of users, the system displays the text "There are no users saved".
Normal Flow	Alternative Flow			
1. The system shows a list of all users previously saved in the database. The user can filter users running UC13 (extend) and select a user running UC14 (include).	1.1. There are no users previously saved, so instead of a list of users, the system displays the text "There are no users saved".			
Postcondition: The user has access to a list of users saved in the database.				

ID: UC13	
Name: Filter Users	
Description: The user applies a filter to view specific users.	
Actors: Monitor, Activity Coordinator and Admin.	
Precondition: The user clicked the Users module button.	
Normal Flow <ol style="list-style-type: none"> 1. The user writes part of the name of the user that wants to find in the search bar in the right part of the screen and clicks the magnifying glass button. 2. The system returns a list of users whose names match the user's entry as a result. 	Alternative Flow <ol style="list-style-type: none"> 2.1. None of the existing users match the user's entry, so the system returns the message "No users found".
Postcondition: A list of users that meet the indicated filter is returned.	

ID: UC14						
Name: View User Details						
Description: Allows the user to preview the selected user.						
Actors: Monitor, Activity Coordinator and Admin.						
Precondition: Select users module and at least one user must have been previously saved.						
<table border="1"> <thead> <tr> <th>Normal Flow</th> <th>Alternative Flow</th> </tr> </thead> <tbody> <tr> <td>1. The user clicks on the "Overview" button from the user whose data they want to consult.</td> <td></td> </tr> <tr> <td>2. The system displays more detailed information about the selected user.</td> <td></td> </tr> </tbody> </table>	Normal Flow	Alternative Flow	1. The user clicks on the "Overview" button from the user whose data they want to consult.		2. The system displays more detailed information about the selected user.	
Normal Flow	Alternative Flow					
1. The user clicks on the "Overview" button from the user whose data they want to consult.						
2. The system displays more detailed information about the selected user.						
Postcondition: The user can consult more detailed data about the selected user.						

ID: UC15				
Name: Visualize Communications List				
Description: A list of communications is shown to the user.				
Actors: Monitor, Activity Coordinator and Admin.				
Precondition: The user clicked the Communications module button.				
<table border="1"> <thead> <tr> <th>Normal Flow</th> <th>Alternative Flow</th> </tr> </thead> <tbody> <tr> <td>1. The system shows a list of all communications previously sent and saved in the database. The user can filter communications running UC16 (extend), select a communication running UC17 (include) and send a communication running UC18 (include).</td> <td>1.1. There are no communications previously sent and saved, so instead of a list of communications, the system displays the text "There are no communications saved".</td> </tr> </tbody> </table>	Normal Flow	Alternative Flow	1. The system shows a list of all communications previously sent and saved in the database. The user can filter communications running UC16 (extend), select a communication running UC17 (include) and send a communication running UC18 (include).	1.1. There are no communications previously sent and saved, so instead of a list of communications, the system displays the text "There are no communications saved".
Normal Flow	Alternative Flow			
1. The system shows a list of all communications previously sent and saved in the database. The user can filter communications running UC16 (extend), select a communication running UC17 (include) and send a communication running UC18 (include).	1.1. There are no communications previously sent and saved, so instead of a list of communications, the system displays the text "There are no communications saved".			
Postcondition: The user has access to a list of communications saved in the database.				

ID: UC16						
Name: Filter Communications						
Description: The user applies a filter to view specific communications.						
Actors: Monitor, Activity Coordinator and Admin.						
Precondition: The user clicked the Communications module button.						
<table border="1"> <thead> <tr> <th>Normal Flow</th> <th>Alternative Flow</th> </tr> </thead> <tbody> <tr> <td>1. The user writes part of the subject of the communication that wants to find in the search bar in the right part of the screen and clicks the magnifying glass button.</td> <td></td> </tr> <tr> <td>2. The system returns a list of communications whose subjects match the user's entry as a result.</td> <td>2.1. None of the existing communications match the user's entry, so the system returns the message "No communications found".</td> </tr> </tbody> </table>	Normal Flow	Alternative Flow	1. The user writes part of the subject of the communication that wants to find in the search bar in the right part of the screen and clicks the magnifying glass button.		2. The system returns a list of communications whose subjects match the user's entry as a result.	2.1. None of the existing communications match the user's entry, so the system returns the message "No communications found".
Normal Flow	Alternative Flow					
1. The user writes part of the subject of the communication that wants to find in the search bar in the right part of the screen and clicks the magnifying glass button.						
2. The system returns a list of communications whose subjects match the user's entry as a result.	2.1. None of the existing communications match the user's entry, so the system returns the message "No communications found".					
Postcondition: A list of communications that meet the indicated filter is returned.						

ID: UC17						
Name: View Communication Details						
Description: Allows the user to view the selected message.						
Actors: Monitor, Activity Coordinator and Admin.						
Precondition: Select Communications module and at least one communication must have been previously saved.						
<table border="1"> <thead> <tr> <th>Normal Flow</th> <th>Alternative Flow</th> </tr> </thead> <tbody> <tr> <td>1. The user clicks on the "Show Message" button from the communication whose message they want to consult.</td> <td></td> </tr> <tr> <td>2. The system displays the message from the selected communication.</td> <td></td> </tr> </tbody> </table>	Normal Flow	Alternative Flow	1. The user clicks on the "Show Message" button from the communication whose message they want to consult.		2. The system displays the message from the selected communication.	
Normal Flow	Alternative Flow					
1. The user clicks on the "Show Message" button from the communication whose message they want to consult.						
2. The system displays the message from the selected communication.						
Postcondition: The user can consult the message from the selected communication.						

ID: UC18	
Name: Send Communication	
Description: Allows the user to create and send a new communication.	
Actors: Monitor, Activity Coordinator and Admin.	
Precondition: The user clicked the Communications module button.	
Normal Flow	Alternative Flow
1. The user clicks the "+" button to create a new communication.	
2. The system shows fields to enter a subject, the recipients, the body of the message and a checkbox to indicate if it's an incidence.	
3. The user enters all data needed to create a new communication and clicks the "Send" button.	3.1. The user cancels the process by clicking the "Cancel" button.
4. The system validates all data entered, creates a new communication entry notifying it to the user and returns to the communication list screen (include UC15).	4.1. The user enters some incorrect data, so the system notifies the user to enter it again correctly.
Postcondition: A new communication entry is saved in the database with the data entered.	

ID: UC19								
Name: Reply Communication								
Description: Allows the user to reply to the selected message.								
Actors: Monitor, Activity Coordinator and Admin.								
Precondition: Select a communication previously saved.								
<table border="1"> <thead> <tr> <th>Normal Flow</th> <th>Alternative Flow</th> </tr> </thead> <tbody> <tr> <td>1. The user clicks on the "Reply" button.</td> <td></td> </tr> <tr> <td>2. The system enables the text area so the user can write in it.</td> <td></td> </tr> <tr> <td>3. The user writes the message and clicks the "Send" button.</td> <td>3.1. The user cancels the process by clicking the "Cancel" button.</td> </tr> </tbody> </table>	Normal Flow	Alternative Flow	1. The user clicks on the "Reply" button.		2. The system enables the text area so the user can write in it.		3. The user writes the message and clicks the "Send" button.	3.1. The user cancels the process by clicking the "Cancel" button.
Normal Flow	Alternative Flow							
1. The user clicks on the "Reply" button.								
2. The system enables the text area so the user can write in it.								
3. The user writes the message and clicks the "Send" button.	3.1. The user cancels the process by clicking the "Cancel" button.							
Postcondition: The message selected is replied and saved in the database.								

ID: UC20											
Name: Edit Customer											
Description: Allows the user to edit data from the selected customer.											
Actors: Activity Coordinator and Admin.											
Precondition: Select a customer.											
<table border="1" data-bbox="198 601 791 1140"> <thead> <tr> <th>Normal Flow</th><th>Alternative Flow</th></tr> </thead> <tbody> <tr> <td>1. The user clicks the "Edit" button.</td><td></td></tr> <tr> <td>2. The system allows modification of all data from the customer.</td><td></td></tr> <tr> <td>3. The user modifies all data needed to edit the selected customer and clicks the "Accept" button.</td><td>3.1. The user cancels the process by clicking the "Cancel" button.</td></tr> <tr> <td>4. The system validates all data entered, saves the new customer data notifying it to the user and returns to the customer list screen (include UC1).</td><td>4.1. The user enters some incorrect data, so the system notifies the user to enter it again correctly.</td></tr> </tbody> </table>	Normal Flow	Alternative Flow	1. The user clicks the "Edit" button.		2. The system allows modification of all data from the customer.		3. The user modifies all data needed to edit the selected customer and clicks the "Accept" button.	3.1. The user cancels the process by clicking the "Cancel" button.	4. The system validates all data entered, saves the new customer data notifying it to the user and returns to the customer list screen (include UC1).	4.1. The user enters some incorrect data, so the system notifies the user to enter it again correctly.	
Normal Flow	Alternative Flow										
1. The user clicks the "Edit" button.											
2. The system allows modification of all data from the customer.											
3. The user modifies all data needed to edit the selected customer and clicks the "Accept" button.	3.1. The user cancels the process by clicking the "Cancel" button.										
4. The system validates all data entered, saves the new customer data notifying it to the user and returns to the customer list screen (include UC1).	4.1. The user enters some incorrect data, so the system notifies the user to enter it again correctly.										
Postcondition: The customer entry is saved in the database with the new data entered.											

ID: UC21	
Name: Delete Customer	
Description: Allows the user to delete the selected customer.	
Actors: Activity Coordinator and Admin.	
Precondition: Select a customer.	
Normal Flow	Alternative Flow
1. The user clicks the "Delete" button.	
2. The system notifies the user with an alert to obtain confirmation before deleting the customer.	
3. The user accepts the confirmation by clicking the "Delete" button.	3.1. The user cancels the confirmation by clicking the "Cancel" button.
4. The system deletes the selected customer entry notifying it to the user and returns to the customer list screen (include UC1) .	
Postcondition: The selected customer entry is deleted from the database.	

ID: UC22	
Name: View Interests Metrics	
Description: Allows the user to see information about the interests of all customers.	
Actors: Activity Coordinator and Admin.	
Precondition: The user clicked the Customers module button.	
Normal Flow	Alternative Flow
1. The user clicks the "Interests Metrics" button.	
2. The system shows information about the quantity of customers with the same interests, like statistics.	
Postcondition: The user can consult the number of customers with common interests for each type.	

ID: UC23											
Name: Create Activity											
Description: Allows the user to create a new activity.											
Actors: Activity Coordinator and Admin.											
Precondition: The user clicked the Activities module button.											
<table border="1" data-bbox="198 601 791 1253"> <thead> <tr> <th>Normal Flow</th><th>Alternative Flow</th></tr> </thead> <tbody> <tr> <td>1. The user clicks the “+” button to create a new activity.</td><td></td></tr> <tr> <td>2. The system shows several fields to enter all data needed to create a new activity such as a title, a start and end date, needed services and requirements...</td><td></td></tr> <tr> <td>3. The user enters all data needed to create a new activity and clicks the “Accept” button.</td><td>3.1. The user cancels the process by clicking the “Cancel” button.</td></tr> <tr> <td>4. The system validates all data entered, creates a new activity entry notifying it to the user and returns to the activity visualization screen (include UC6).</td><td>4.1. The user enters some incorrect data, so the system notifies the user to enter it again correctly.</td></tr> </tbody> </table>	Normal Flow	Alternative Flow	1. The user clicks the “+” button to create a new activity.		2. The system shows several fields to enter all data needed to create a new activity such as a title, a start and end date, needed services and requirements...		3. The user enters all data needed to create a new activity and clicks the “Accept” button.	3.1. The user cancels the process by clicking the “Cancel” button.	4. The system validates all data entered, creates a new activity entry notifying it to the user and returns to the activity visualization screen (include UC6).	4.1. The user enters some incorrect data, so the system notifies the user to enter it again correctly.	
Normal Flow	Alternative Flow										
1. The user clicks the “+” button to create a new activity.											
2. The system shows several fields to enter all data needed to create a new activity such as a title, a start and end date, needed services and requirements...											
3. The user enters all data needed to create a new activity and clicks the “Accept” button.	3.1. The user cancels the process by clicking the “Cancel” button.										
4. The system validates all data entered, creates a new activity entry notifying it to the user and returns to the activity visualization screen (include UC6).	4.1. The user enters some incorrect data, so the system notifies the user to enter it again correctly.										
Postcondition: A new activity entry is saved in the database with the data entered.											

ID: UC24	
Name: Edit Activity	
Description: Allows the user to edit data from the selected activity.	
Actors: Activity Coordinator and Admin.	
Precondition: Select an activity.	
Normal Flow	Alternative Flow
1. The user clicks the "Edit" button.	
2. The system allows modification of all data from the activity.	
3. The user modifies all data needed to edit the selected activity and clicks the "Accept" button.	3.1. The user cancels the process by clicking the "Cancel" button.
4. The system validates all data entered, saves the new activity data notifying it to the user and returns to the selected activity screen (include UC10).	4.1. The user enters some incorrect data, so the system notifies the user to enter it again correctly.
Postcondition: The activity entry is saved in the database with the new data entered.	

ID: UC25										
Name: Delete Activity										
Description: Allows the user to delete the selected activity.										
Actors: Activity Coordinator and Admin.										
Precondition: Select an activity.										
<table border="1"> <thead> <tr> <th>Normal Flow</th> <th>Alternative Flow</th> </tr> </thead> <tbody> <tr> <td>1. The user clicks the "Delete" button.</td> <td></td> </tr> <tr> <td>2. The system notifies the user with an alert to obtain confirmation before deleting the activity.</td> <td></td> </tr> <tr> <td>3. The user accepts the confirmation by clicking the "Delete" button.</td> <td>3.1. The user cancels the confirmation by clicking the "Cancel" button.</td> </tr> <tr> <td>4. The system deletes the selected activity entry notifying it to the user and returns to the activity list screen (include UC6).</td> <td></td> </tr> </tbody> </table>	Normal Flow	Alternative Flow	1. The user clicks the "Delete" button.		2. The system notifies the user with an alert to obtain confirmation before deleting the activity.		3. The user accepts the confirmation by clicking the "Delete" button.	3.1. The user cancels the confirmation by clicking the "Cancel" button.	4. The system deletes the selected activity entry notifying it to the user and returns to the activity list screen (include UC6).	
Normal Flow	Alternative Flow									
1. The user clicks the "Delete" button.										
2. The system notifies the user with an alert to obtain confirmation before deleting the activity.										
3. The user accepts the confirmation by clicking the "Delete" button.	3.1. The user cancels the confirmation by clicking the "Cancel" button.									
4. The system deletes the selected activity entry notifying it to the user and returns to the activity list screen (include UC6).										
Postcondition: The selected activity entry is deleted from the database.										

ID: UC26	
Name: Unenroll Participant	
Description: Allows to unenroll participants in the selected activity.	
Actors: Activity Coordinator and Admin.	
Precondition: Select an activity.	
Normal Flow <ol style="list-style-type: none"> 1. The user clicks the "Participants" button. 2. The system displays a list of all participants enrolled in the selected activity. 3. The user ticks the unenroll checkbox from the participant/s that want to unenroll and clicks the "Unenroll" button. 4. The system notifies the user with an alert to obtain confirmation before unenrolling the participant/s. 5. The user accepts the confirmation by clicking the "Unenroll" button. 6. The system removes the selected participant/s from the list notifying it to the user. 	Alternative Flow <ol style="list-style-type: none"> 5.1. The user cancels the confirmation by clicking the "Cancel" button.
Postcondition: The participant/s is/are removed from the participants list.	

ID: UC27													
Name: Enroll Participant													
Description: Allows the user to enroll participants to an activity.													
Actors: Activity Coordinator and Admin.													
Precondition: The activity must be created previously and the user clicked the Customers module button.													
<table border="1" data-bbox="198 601 1375 1702"> <thead> <tr> <th>Normal Flow</th><th>Alternative Flow</th></tr> </thead> <tbody> <tr> <td>1. The user clicks the "Add Participants" button.</td><td></td></tr> <tr> <td>2. The system displays a file chooser to select the CSV file that contains the participants data and the name of the activity to which they will be enrolled.</td><td></td></tr> <tr> <td>3. The user selects the file and clicks the "Open" button.</td><td>3.1. The user cancels the process by clicking the "Cancel" button.</td></tr> <tr> <td>4. The system displays a customer edit screen for every customer that has to be created, (the ones that already exist in the database will only be enrolled in the indicated activity, the rest will be created and saved in the database and then enrolled in the activity) so the user can upload a photo to its profile and check that all customer information is correct.</td><td></td></tr> <tr> <td>5. The user checks all the information for a customer and clicks the "Accept" button to continue with the next customer.</td><td>5.1 The customer displayed must not be enrolled in the activity, so the user clicks the "Cancel" button to continue with the next customer, ignoring the current one. 5.2 Some data is incorrect, so the user changes it before clicking the "Accept" button.</td></tr> </tbody> </table>	Normal Flow	Alternative Flow	1. The user clicks the "Add Participants" button.		2. The system displays a file chooser to select the CSV file that contains the participants data and the name of the activity to which they will be enrolled.		3. The user selects the file and clicks the "Open" button.	3.1. The user cancels the process by clicking the "Cancel" button.	4. The system displays a customer edit screen for every customer that has to be created, (the ones that already exist in the database will only be enrolled in the indicated activity, the rest will be created and saved in the database and then enrolled in the activity) so the user can upload a photo to its profile and check that all customer information is correct.		5. The user checks all the information for a customer and clicks the "Accept" button to continue with the next customer.	5.1 The customer displayed must not be enrolled in the activity, so the user clicks the "Cancel" button to continue with the next customer, ignoring the current one. 5.2 Some data is incorrect, so the user changes it before clicking the "Accept" button.	
Normal Flow	Alternative Flow												
1. The user clicks the "Add Participants" button.													
2. The system displays a file chooser to select the CSV file that contains the participants data and the name of the activity to which they will be enrolled.													
3. The user selects the file and clicks the "Open" button.	3.1. The user cancels the process by clicking the "Cancel" button.												
4. The system displays a customer edit screen for every customer that has to be created, (the ones that already exist in the database will only be enrolled in the indicated activity, the rest will be created and saved in the database and then enrolled in the activity) so the user can upload a photo to its profile and check that all customer information is correct.													
5. The user checks all the information for a customer and clicks the "Accept" button to continue with the next customer.	5.1 The customer displayed must not be enrolled in the activity, so the user clicks the "Cancel" button to continue with the next customer, ignoring the current one. 5.2 Some data is incorrect, so the user changes it before clicking the "Accept" button.												
Postcondition: All participants are enrolled in the indicated activity and saved in the database if not already present.													

ID: UC28	
Name: Create Customer	
Description: Allows the user to create a new customer.	
Actors: Activity Coordinator and Admin.	
Precondition: The user clicked the Customers module button.	
Normal Flow <ol style="list-style-type: none"> 1. The user clicks the "+" button to create a new user. 2. The system shows several fields to enter all data needed to create a new user such as a name, an email, ... 3. The user enters all data needed to create a new user and clicks the "Accept" button. 4. The system validates all data entered, creates a new customer entry notifying it to the user and returns to the customer list screen (include UC1). 	Alternative Flow <ol style="list-style-type: none"> 3.1. The user cancels the process by clicking the "Cancel" button. 4.1. The user enters some incorrect data, so the system notifies the user to enter it again correctly.

ID: UC29	
Name: Create User	
Description: Allows the user to create a new user.	
Actors: Admin.	
Precondition: The user clicked the Users module button.	
Normal Flow <ol style="list-style-type: none"> 1. The user clicks the "+" button to create a new user. 2. The system shows several fields to enter all data needed to create a new user such as a name, an email, ... 3. The user enters all data needed to create a new user and clicks the "Accept" button. 4. The system validates all data entered, creates a new user entry notifying it to the user and returns to the user list screen (include UC12). 	Alternative Flow <ol style="list-style-type: none"> 3.1. The user cancels the process by clicking the "Cancel" button. 4.1. The user enters some incorrect data, so the system notifies the user to enter it again correctly.
Postcondition: A new user entry is saved in the database with the data entered.	

ID: UC30	
Name: Edit User	
Description: Allows the user to edit data from the selected user.	
Actors: Admin.	
Precondition: Select a user.	
Normal Flow	Alternative Flow
1. The user clicks the "Edit" button.	
2. The system allows modification of all data from the user.	
3. The user modifies all data needed to edit the selected user and clicks the "Accept" button.	3.1. The user cancels the process by clicking the "Cancel" button.
4. The system validates all data entered, saves the new user data notifying it to the user and returns to the user list screen (include UC12).	4.1. The user enters some incorrect data, so the system notifies the user to enter it again correctly.
Postcondition: The user entry is saved in the database with the new data entered.	

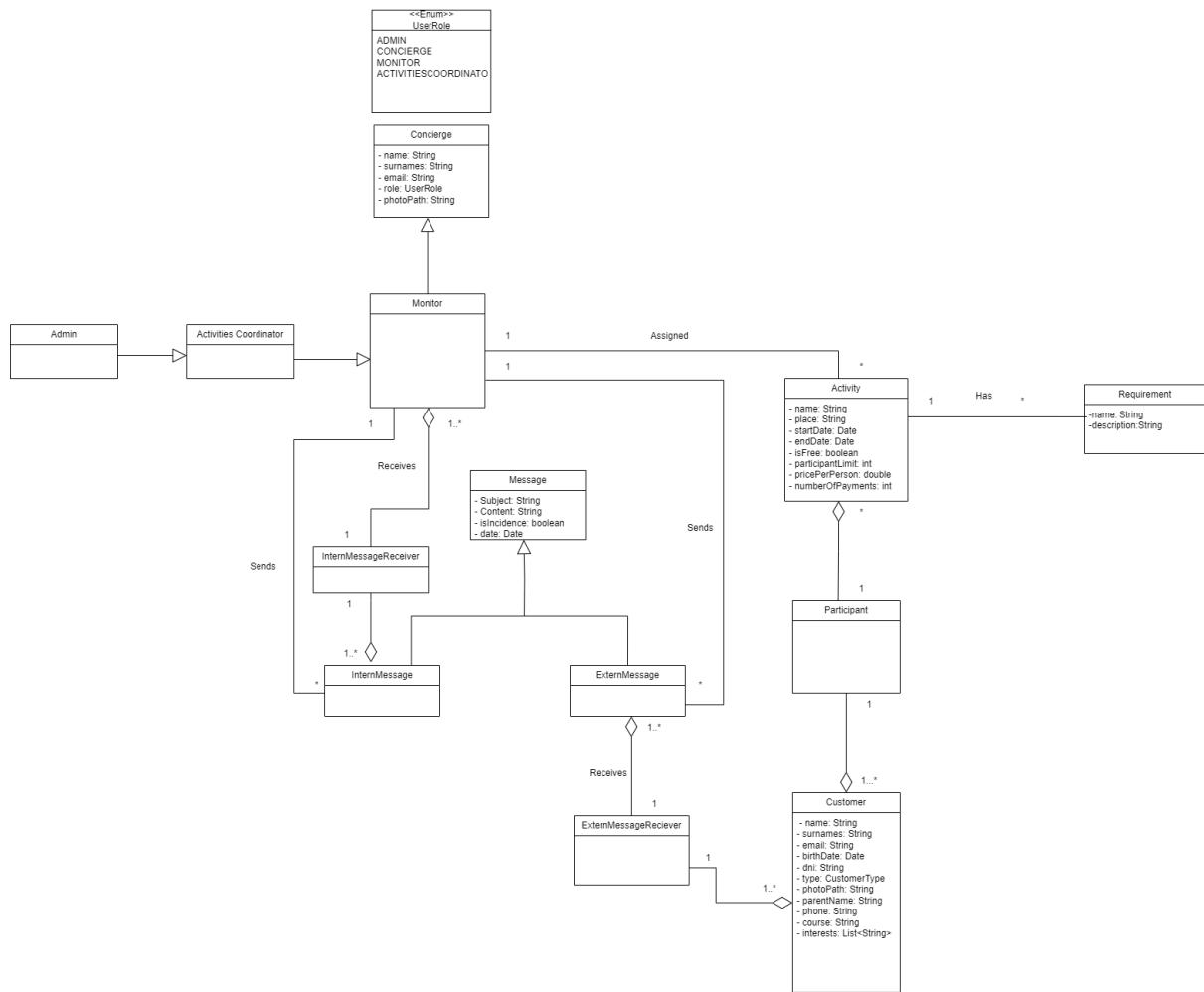
ID: UC31											
Name: Delete User											
Description: Allows the user to delete the selected user.											
Actors: Activity Coordinator and Admin.											
Precondition: Select a user.											
<table border="1"> <thead> <tr> <th>Normal Flow</th> <th>Alternative Flow</th> </tr> </thead> <tbody> <tr> <td>1. The user clicks the "Delete" button.</td> <td></td> </tr> <tr> <td>2. The system notifies the user with an alert to obtain confirmation before deleting the user.</td> <td></td> </tr> <tr> <td>3. The user accepts the confirmation by clicking the "Delete" button.</td> <td>3.1. The user cancels the confirmation by clicking the "Cancel" button.</td> </tr> <tr> <td>4. The system deletes the selected user entry notifying it to the user and returns to the user list screen (include UC12).</td> <td></td> </tr> </tbody> </table>		Normal Flow	Alternative Flow	1. The user clicks the "Delete" button.		2. The system notifies the user with an alert to obtain confirmation before deleting the user.		3. The user accepts the confirmation by clicking the "Delete" button.	3.1. The user cancels the confirmation by clicking the "Cancel" button.	4. The system deletes the selected user entry notifying it to the user and returns to the user list screen (include UC12).	
Normal Flow	Alternative Flow										
1. The user clicks the "Delete" button.											
2. The system notifies the user with an alert to obtain confirmation before deleting the user.											
3. The user accepts the confirmation by clicking the "Delete" button.	3.1. The user cancels the confirmation by clicking the "Cancel" button.										
4. The system deletes the selected user entry notifying it to the user and returns to the user list screen (include UC12).											
Postcondition: The selected user entry is deleted from the database.											

ID: UC32								
Name: Send Incription Form								
Description: Allows the customer to send a form with all data needed to enroll it to an activity.								
Actors: Customer.								
Precondition: The customer accesses the institute's website.								
<table border="1"> <thead> <tr> <th>Normal Flow</th> <th>Alternative Flow</th> </tr> </thead> <tbody> <tr> <td>1. The customer clicks the form option to access it.</td> <td></td> </tr> <tr> <td>2. The system displays the form to the customer.</td> <td></td> </tr> <tr> <td>3. The customer fills the form with all data required and the activity id to which wants to be enrolled, then clicks the "Send" button.</td> <td>3.1. The customer cancels the process by not clicking the "Send" button.</td> </tr> </tbody> </table>	Normal Flow	Alternative Flow	1. The customer clicks the form option to access it.		2. The system displays the form to the customer.		3. The customer fills the form with all data required and the activity id to which wants to be enrolled, then clicks the "Send" button.	3.1. The customer cancels the process by not clicking the "Send" button.
Normal Flow	Alternative Flow							
1. The customer clicks the form option to access it.								
2. The system displays the form to the customer.								
3. The customer fills the form with all data required and the activity id to which wants to be enrolled, then clicks the "Send" button.	3.1. The customer cancels the process by not clicking the "Send" button.							
Postcondition: The system saves all data provided by the customer.								

12. Navigation Screens Models

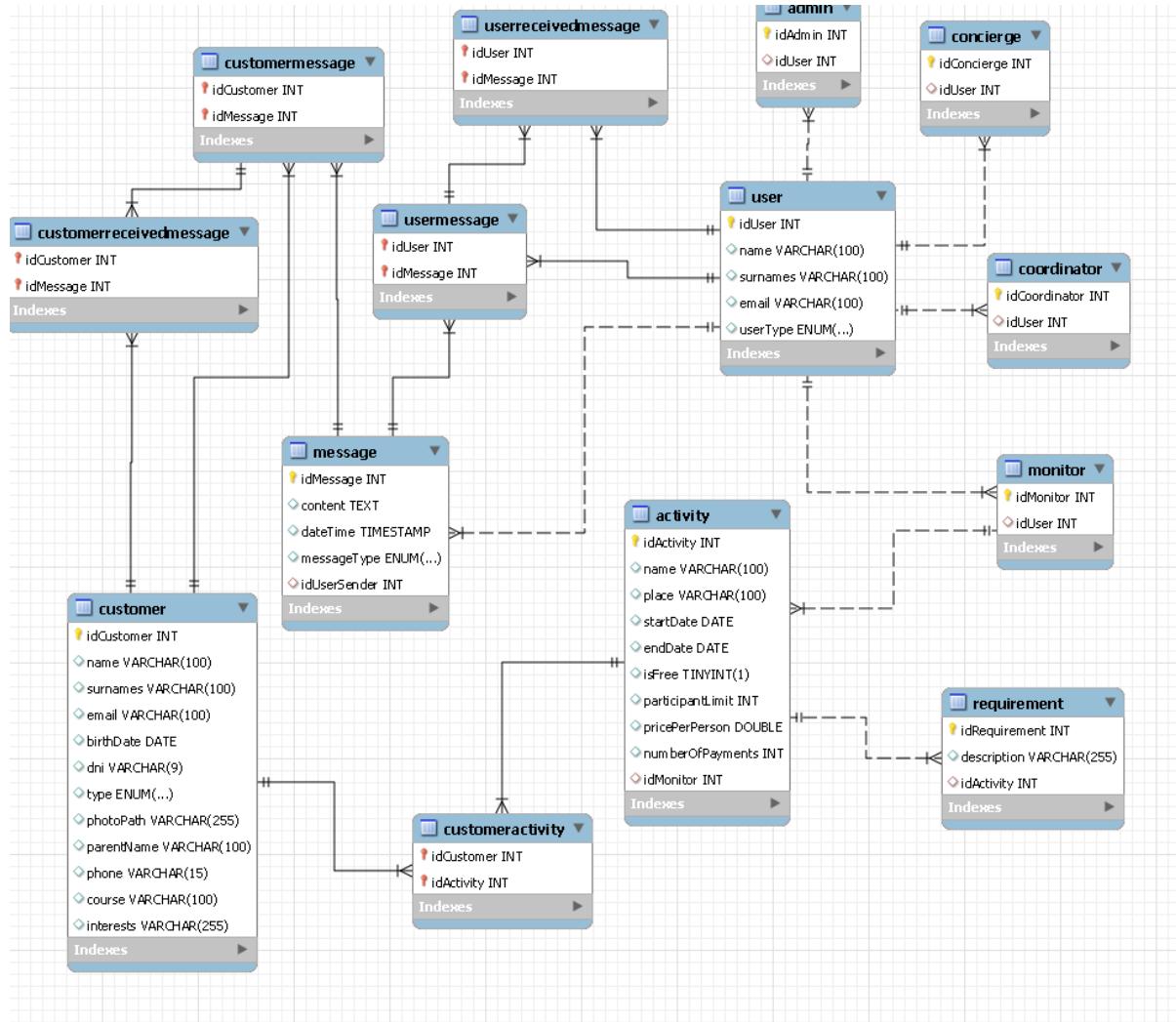
<https://marvelapp.com/prototype/1059a62e>

13. Class Diagram



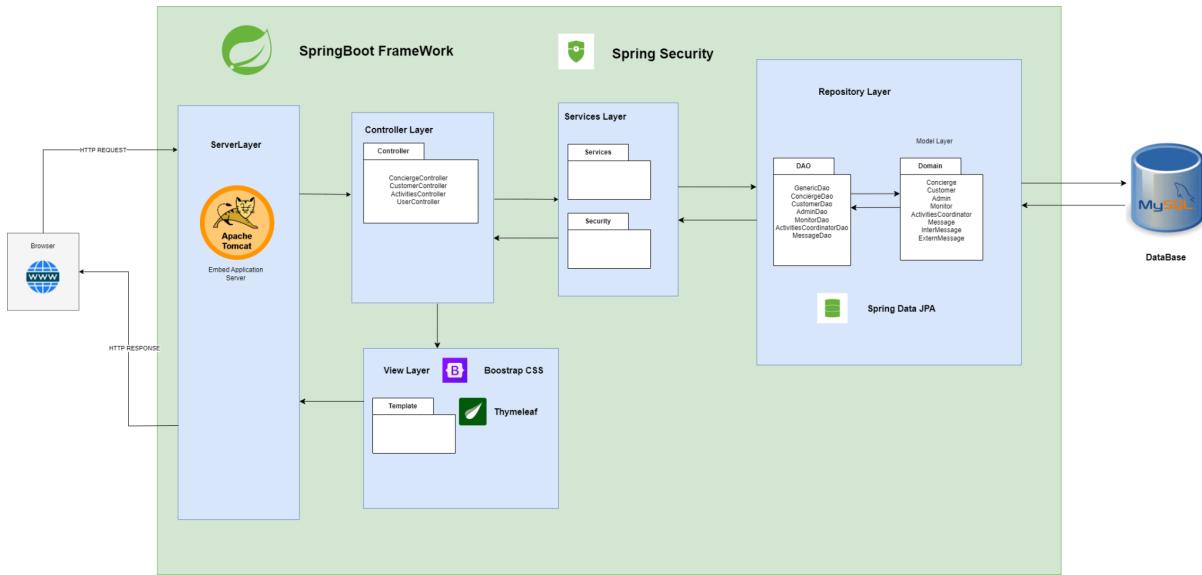
<https://drive.google.com/file/d/1w9zM1kN-SmvOMGbXY-fWWITRbFiMBAel/view?usp=sharing>

14. Relational Design of the Database



<https://drive.google.com/file/d/1u7sQL0OleKDFLHiaWTcRnviaC4CRqdXK/view?usp=sharing>

15. Architecture Diagram



<https://drive.google.com/file/d/1nx4oIV0Cjxt7oI33kIAiotqTW0WKHZvp/view?usp=sharing>

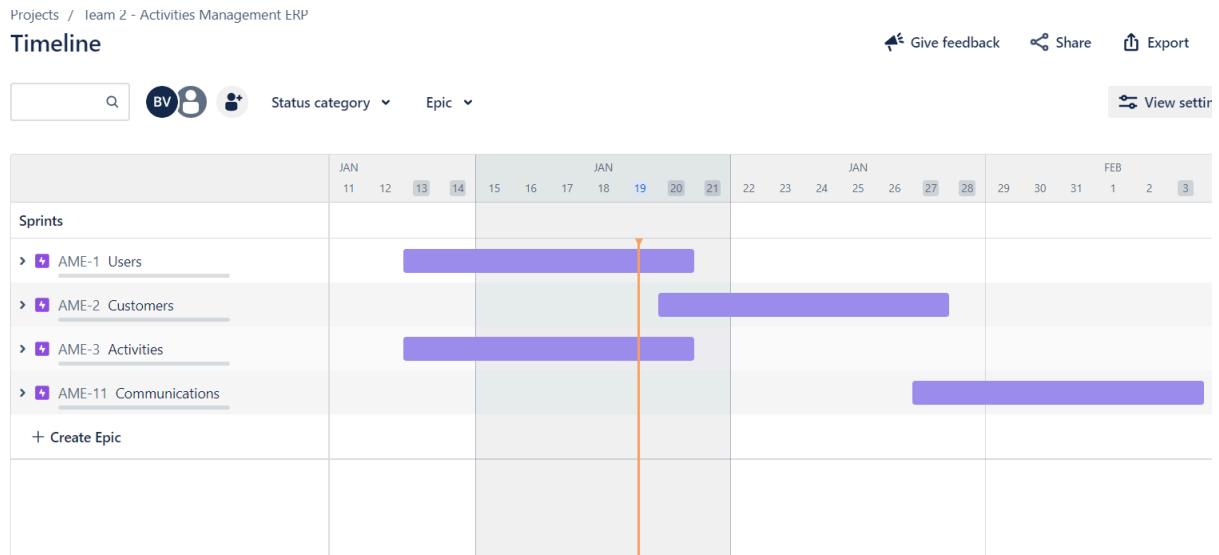
Link to all diagrams: https://app.diagrams.net/#G1iITrD7zEoeOESFovqw9itRkeUX_twjFZ

16. Jira Screenshots

16.1 Sprint 1

16.1.1 Initial status

▼ Tablero Sprint 1 Añadir fechas (8 incidencias)		82	0	0	Iniciar sprint	...
<input type="checkbox"/>	AME-43 A user wants to create a user (UC29 - Create User)	USERS	TAREAS POR H...	12		...
<input checked="" type="checkbox"/>	AME-44 A user wants to edit a user (UC30 - Edit User)	USERS	TAREAS POR H...	10		...
<input checked="" type="checkbox"/>	AME-45 A user wants to delete a user (UC31 - Delete User)	USERS	TAREAS POR H...	6		...
<input checked="" type="checkbox"/>	AME-12 A user wants to Login		TAREAS POR H...	10		...
<input checked="" type="checkbox"/>	AME-13 A user wants to Logout		TAREAS POR H...	8		...
<input checked="" type="checkbox"/>	AME-37 A user wants to create an activity (UC23 - Create Activity)	ACTIVITIES	TAREAS POR H...	18		...
<input checked="" type="checkbox"/>	AME-38 A user wants to edit an activity (UC24 - Edit Activity)	ACTIVITIES	TAREAS POR H...	12		...
<input checked="" type="checkbox"/>	AME-39 A user wants to delete an activity (UC25 - Delete Activity)	ACTIVITIES	TAREAS POR H...	6		...



16.1.2 Final status

Tablero Sprint 2 27 ene – 10 feb (8 incidencias)					0	82	0	Iniciar sprint	...
AM-39 A user wants to delete an activity (UC25 - Delete Activity)	ACTIVITIES	EN REVISIÓN	6	OP					
AM-38 A user wants to edit an activity (UC24 - Edit Activity)	ACTIVITIES	EN REVISIÓN	12	OP					
AM-37 A user wants to create an activity (UC23 - Create Activity)	ACTIVITIES	EN REVISIÓN	18	OP					
AM-13 A user wants to Logout		EN REVISIÓN	8	BV					
AM-12 A user wants to Login		EN REVISIÓN	10	BV					
AM-43 A user wants to create a user (UC29 - Create User)	USERS	EN REVISIÓN	12	MS					
AM-45 A user wants to delete a user (UC31 - Delete User)	USERS	EN REVISIÓN	6	MS					
AM-44 A user wants to edit a user (UC30 - Edit User)	USERS	EN REVISIÓN	10	MS					

Jira is not correctly updated due to the lack of time. The distribution of tasks does not represent the real work done by the group members. The real tasks that each one has carried out can be consulted both in the daily review and in the repository.

16.2 Sprint 2

16.2.1 Initial status

Tablero Sprint 2 22 Jan – 25 Jan (19 issues)					12	0	146	Complete sprint	...
AM-35 A user wants to delete a customer (UC21 - Delete Customer)	CUSTOMERS	DONE	4	B					
AM-15 A user wants to view a customers list (UC1 - Visualize Customers List)	CUSTOMERS	DONE	8	B					
AM-24 A user wants to view an activity details (UC10 - View Activity Details)	ACTIVITIES	DONE	10	B					
AM-34 A user wants to edit a customer (UC20 - Edit Customer)	CUSTOMERS	DONE	8	B					
AM-12 A user wants to Login		DONE	10	B					
AM-37 A user wants to create an activity (UC23 - Create Activity)	ACTIVITIES	DONE	18	B					
AM-39 A user wants to delete an activity (UC25 - Delete Activity)	ACTIVITIES	DONE	6	B					
AM-22 A user wants to filter activities by name (UC8 - Filter by Activity Name)	ACTIVITIES	DONE	6	B					
AM-38 A user wants to edit an activity (UC24 - Edit Activity)	ACTIVITIES	DONE	12	B					
AM-20 A user wants to view an activities list (UC6 - Visualize Activities List)	ACTIVITIES	DONE	10	B					
AM-13 A user wants to Logout		DONE	8	B					
AM-43 A user wants to create a user (UC29 - Create User)	USERS	DONE	12	B					

<input checked="" type="checkbox"/> AME-20 A user wants to view an activities list (UC6 - Visualize Activities List)	ACTIVITIES	DONE ✓	10	
<input checked="" type="checkbox"/> AME-13 A user wants to Logout	USERS	DONE ✓	8	
<input checked="" type="checkbox"/> AME-43 A user wants to create a user (UC29 - Create User)	USERS	DONE ✓	12	
<input checked="" type="checkbox"/> AME-45 A user wants to delete a user (UC31 - Delete User)	USERS	DONE ✓	6	
<input checked="" type="checkbox"/> AME-44 A user wants to edit a user (UC30 - Edit User)	USERS	DONE ✓	10	
<input checked="" type="checkbox"/> AME-28 A user wants to view a user details (UC14 - View User Details)	USERS	DONE ✓	8	
<input checked="" type="checkbox"/> AME-26 A user wants to view a user list (UC12 - Visualize User List)	USERS	DONE ✓	10	
<input checked="" type="checkbox"/> AME-17 A user wants to view a customer details (UC3 - View Customer Details)	CUSTOMERS	TO DO ▾	8	
<input checked="" type="checkbox"/> AME-23 A user wants to filter activities by date (UC9 - Filter by Activity Date)	ACTIVITIES	TO DO ▾	4	
<input type="checkbox"/> AME-21 A user wants to filter activities list (UC7 - Filter Activities)	ACTIVITIES	TO DO ▾	0	

+ Create issue

16.2.2 Final status

TO DO	IN PROGRESS	EN REVISIÓN	DONE 16 ✓
<p>A user wants to view a customer details (UC3 - View Customer Details)</p> <p>CUSTOMERS</p> <p><input checked="" type="checkbox"/> AME-17 8</p>			<p>A user wants to delete a customer (UC21 - Delete Customer)</p> <p>CUSTOMERS</p> <p><input checked="" type="checkbox"/> AME-35 4</p>
<p>A user wants to filter activities by date (UC9 - Filter by Activity Date)</p> <p>ACTIVITIES</p> <p><input checked="" type="checkbox"/> AME-23 4</p>			<p>A user wants to view a customers list (UC1 - Visualize Customers List)</p> <p>CUSTOMERS</p> <p><input checked="" type="checkbox"/> AME-15 8</p>
<p>A user wants to filter activities list (UC7 - Filter Activities)</p> <p>ACTIVITIES</p> <p><input checked="" type="checkbox"/> AME-21 </p>			<p>A user wants to view an activity details (UC10 - View Activity Details)</p> <p>ACTIVITIES</p> <p><input checked="" type="checkbox"/> AME-24 10</p>
			<p>A user wants to filter activities list (UC7 - Filter Activities)</p> <p>ACTIVITIES</p> <p><input checked="" type="checkbox"/> AME-21 </p>
			<p>A user wants to view an activity details (UC10 - View Activity Details)</p> <p>ACTIVITIES</p> <p><input checked="" type="checkbox"/> AME-24 10</p>
			<p>A user wants to edit a customer (UC20 - Edit Customer)</p> <p>CUSTOMERS</p> <p><input checked="" type="checkbox"/> AME-34 8</p>
			<p>A user wants to Login</p> <p>ACTIVITIES</p> <p><input checked="" type="checkbox"/> AME-12 10</p>
			<p>A user wants to create an activity (UC23 - Create Activity)</p>

TO DO 3	IN PROGRESS	EN REVISIÓN	DONE 16 ✓
			ACTIVITIES ✓ AME-39 ✓ 6 A user wants to filter activities by name (UC8 - Filter by Activity Name) ACTIVITIES ✓ AME-22 ✓ 6 A user wants to edit an activity ... ACTIVITIES ✓ AME-30 ✓ 12 A user wants to view an activities list (UC6 - Visualize Activities List) ACTIVITIES ✓ AME-20 ✓ 10 A user wants to Logout USERS ✓ AME-13 ✓ 8 A user wants to create a user (UC9 - Create User)

16.3 Sprint 3

16.3.1 Initial status

POR HACER 12	EN CURSO	EN REVISIÓN	LISTO ✓
A user wants to filter activities by date (UC9 - Filter by Activity Date) ACTIVITIES ✓ AME-23 ✓ 2 A user wants to filter activities list (UC7 - Filter Activities) ACTIVITIES ✓ AME-21 ✓ 2 A user wants to edit his user name or password (UC5 - Edit User Profile) USERS ✓ AME-19 ✓ 10			

Tablero Sprint 3

Happiness of the client (Jordi Cardenas)

Restantes: 0 días | ⚡ ⭐ 🔗 ↗ Com

AGGRUPAR POR Na

POR HACER 12	EN CURSO	EN REVISIÓN	LISTO ✓
A user wants to view his own profile (UC4 - Visualize User Profile) USERS AME-18 6			
A user wants to filter customers list (UC2 - Filter Customers) CUSTOMERS AME-16 4			
A user wants to filter users list (UC13 - Filter Users) USERS AME-27 3			

Tablero Sprint 3

Happiness of the client (Jordi Cardenas)

Restantes: 0 días | ⚡ ⭐ 🔗 ↗ Comp

AGGRUPAR POR Na

POR HACER 12	EN CURSO	EN REVISIÓN	LISTO ✓
A user wants to view a customer details (UC3 - View Customer Details) CUSTOMERS AME-17 6			
A customer wants to send a form (UC32 - Send Inscription Form) AME-14 12			
A user wants to view an activity participants list (UC11 - Visualize Activity Participants List) ACTIVITIES AME-25 6			

Tablero Sprint 3

Happiness of the client (Jordi Cardenas)

Restantes: 0 días | ⚡ ⭐ 🔗 ↵ Comp

POR HACER 12

- A user wants to create a customer (UC28 - Create Customer)
CUSTOMERS
AME-42 12 MC
- A user wants to unenroll a participant from an activity (UC26 - Unenroll Participant)
ACTIVITIES
AME-40 6 MC
- A user wants to enroll a participant to an activity (UC27 - Enroll Participant)
ACTIVITIES
AME-41 6 OB

EN CURSO

EN REVISIÓN

LISTO ✓

16.3.2 Final status**Tablero Sprint 3**

Happiness of the client (Jordi Cardenas)

Restantes: 0 días | ⚡ ⭐ 🔗 ↵ Comp

POR HACER 2

- A user wants to filter activities by date (UC9 - Filter by Activity Date)
ACTIVITIES
AME-23 2 OB
- A user wants to filter activities list (UC7 - Filter Activities)
ACTIVITIES
AME-21 2 OB

EN CURSO

EN REVISIÓN

LISTO 10 ✓

- A user wants to edit his user name or password (UC5 - Edit User Profile)
USERS
AME-19 10 OB
- A user wants to view his own profile (UC4 - Visualize User Profile)
USERS
AME-18 6 OB
- A user wants to filter customers list (UC2 - Filter Customers)
CUSTOMERS
AME-16 4 OB

Tablero Sprint 3

Happiness of the client (Jordi Cárdenas)

Restantes: 0 días | ⚡ ⭐ 🔍 ↻ Com

POR HACER 2

EN CURSO

EN REVISIÓN

LISTO 10 ✓

A user wants to filter users list (UC13 - Filter Users)
USERS
AME-27 ✓ 3 OB

A user wants to view a customer details (UC3 - View Customer Details)
CUSTOMERS
AME-17 ✓ 6 OB

A customer wants to send a form (UC32 - Send Incription Form)
AME-14 ✓ 12 OB

Tablero Sprint 3

Happiness of the client (Jordi Cárdenas)

Restantes: 0 días | ⚡ ⭐ 🔍 ↻ Com

POR HACER 2

EN CURSO

EN REVISIÓN

LISTO 10 ✓

A user wants to view an activity participants list (UC11 - Visualize Activity Participants List)
ACTIVITIES
AME-25 ✓ 6 MC

A user wants to create a customer (UC28 - Create Customer)
CUSTOMERS
AME-42 ✓ 12 OB

A user wants to unenroll a participant from an activity (UC26 - Unenroll Participant)
ACTIVITIES
AME-40 ✓ 6 MC

Tablero Sprint 3

Happiness of the client (Jordi Cárdenas)

Restantes: 0 días | ⚡ ⚡ ⚡ ⚡ ⚡ Cor

The scrum board shows the following columns:

- POR HACER 2**: Contains one task.
- EN CURSO**: Contains one task.
- EN REVISIÓN**: Contains one task.
- LISTO 10**: Contains three tasks, each with a green checkmark and a progress bar.

Categoría	Tarea	Estado	Detalles
CUSTOMERS	AME-42	Completado	A user wants to create a customer (UC28 - Create Customer)
	AME-40	Completado	A user wants to unenroll a participant from an activity (UC26 - Unenroll Participant)
	AME-41	Completado	A user wants to enroll a participant to an activity (UC27 - Enroll Participant)

16.4 Sprint 4

16.4.1 Initial status

Tablero Sprint 4

Restantes: 4 días | ⚡ ⚡ ⚡ ⚡ ⚡ Cor

The scrum board shows the following columns:

- POR HACER 8**: Contains three tasks, one of which is highlighted in yellow.
- EN CURSO**: Contains one task.
- EN REVISIÓN**: Contains one task.
- LISTO**: Contains one task.

Categoría	Tarea	Estado	Detalles
ACTIVITIES	AME-23	En curso	A user wants to filter activities by date (UC9 - Filter by Activity Date)
	AME-21	En curso	A user wants to take attendance (UC33 - Take Attendance)
	AME-29	Completado	A user wants to view a communications list (UC15 - Visualize Communications List)
LISTO			

Tablero Sprint 4

Restantes: 4 días | ⚡ ⭐ 🔍 ↻ Com

POR HACER 8

- A user wants to view a communication details (UC17 - View Communications Details)
 - COMMUNICATIONS**
 - AME-31 (6 MC)
- A user wants to filter a communications list (UC16 - Filter Communications)
 - COMMUNICATIONS**
 - AME-30 (4 OB)
- A user wants to send a communication (UC18 - Send Communication)
 - COMMUNICATIONS**
 - AME-32 (14)

EN CURSO

EN REVISIÓN

LISTO ✓

AGRUPAR POR Na

Tablero Sprint 4

Restantes: 4 días | ⚡ ⭐ 🔍 ↻ Com

POR HACER 8

- A user wants to send a communication (UC18 - Send Communication)
 - COMMUNICATIONS**
 - AME-32 (14)
- A user wants to reply a communication (UC19 - Reply Communication)
 - COMMUNICATIONS**
 - AME-33 (12)
- A user wants to view interests metrics (UC22 - View Interests Metrics)
 - CUSTOMERS**
 - AME-36 (12 MC)

EN CURSO

EN REVISIÓN

LISTO ✓

AGRUPAR POR Na

16.4.2 Final status

Tablero Sprint 4

Restantes: 0 días | ⚡ ⚡ ⚡ ⚡ ⚡ Completado

This screenshot shows a Scrum board for Sprint 4. The columns are labeled: POR HACER, EN CURSO, EN REVISIÓN, and LISTO 8. The LISTO column contains the following tasks:

- A user wants to filter activities by date (UC9 - Filter by Activity Date)
 - ACTIVITIES**
 - AME-23 (Status: ✓, 2 OB)
- A customer wants to view an activities board
 - ACTIVITIES**
 - AME-21 (Status: ✓, 8 OB)
- A user wants to send a communication (UC18 - Send Communication)
 - COMMUNICATIONS**
 - AME-32 (Status: ✓, 14 OB)

Tablero Sprint 4

Restantes: 0 días | ⚡ ⚡ ⚡ ⚡ ⚡ Completado

This screenshot shows a Scrum board for Sprint 4. The columns are labeled: POR HACER, EN CURSO, EN REVISIÓN, and LISTO 8. The LISTO column contains the following tasks:

- A user wants to view a communications list (UC15 - Visualize Communications List)
 - COMMUNICATIONS**
 - AME-29 (Status: ✓, 10 MC)
- A user wants to reply a communication (UC19 - Reply Communication)
 - COMMUNICATIONS**
 - AME-33 (Status: ✓, 12 MC)
- A user wants to filter a communications list (UC16 - Filter Communications)
 - COMMUNICATIONS**
 - AME-30 (Status: ✓, 4 OB)

Proyectos / Team 2 - Activities Management ERP

Tablero Sprint 4

POR HACER	EN CURSO	EN REVISIÓN	LISTO
			<p>LISTO 8 ✓</p> <p>A user wants to filter a communications list (UC16 - Filter Communications) COMMUNICATIONS AME-30 ✓ 4 OB</p> <p>A user wants to view a communication details (UC17 - View Communications Details) COMMUNICATIONS AME-31 ✓ 6 MC</p> <p>A user wants to view interests metrics (UC22 - View Interests Metrics) CUSTOMERS AME-36 ✓ 12 MC</p>

17. Daily Review

<https://docs.google.com/spreadsheets/d/1NszF0yfZqgzntlhVJwKgDnJP0UHSRB6nJ9ptSsatxaQ/edit?usp=sharing>

18. GitLab Repository

<https://gitlab.com/project2team2/activities-management-erp>

19. Jira

<https://oscar-bellerino-plaza.atlassian.net/jira/software/projects/AME/boards/1/backlog>