

Intercompany

Functional Specification

Information Systems

Integrated Masters in Informatics and Computer Engineering
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Grupo W

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1. Project overview

The aim of this project is to develop and implement a customizable interface that will be able to handle all transactions between two different companies (a supplier and a client), with Jasmin integration. Users will be able to search for various products and buy them in a single transaction.

In order to achieve this goal, we have to first, identify the project's core views, second, develop a website that will allow us to implement these features and third, build the interface between the application and Jasmin.

Besides completing a purchase/sale, there will also be information available on sales, purchases, inventory, billing and other relevant information.

In this project we will use Jasmin to deal with all the data and processes surrounding transactions, inventory and information about each product. This information will be accessible after establishing a communication layer between Jasmin and the back-end of our project.

2. Functionalities and features

2.1 Make Purchase

Functionality	Description
Product Search	Show products from a specific keyword.
Current Supplier	Shows the current supplier from which the products are being purchased.
Product(s)	Displays all the products that are currently being purchased.
Product Information	Shows all the information that is known about the product that is being purchased: <ul style="list-style-type: none">• Name• Warehouse• Available Quantity• Desired Quantity• Price per unit• Discount• IVA• Total product payment
Exchange Rate	Shown in case of purchase between different types of currency.
Payment Method	All the current methods of payment that are supported by the supplier.
Billing information	Necessary information in order to successfully complete the order payment. <ul style="list-style-type: none">• Entity• Name• Reference
Order Total	Total payment required to complete the purchase.

Table 1 - Make Purchase

2.2 Purchase State

Functionality	Description
Purchase History	Presents information about the orders created in the system: <ul style="list-style-type: none">• Date of placement• Reference• Serial Number• Order total• Order Status
Order Status	Shows the current status of all placed orders: <ul style="list-style-type: none">• Processing (in case payment has not been completed yet or the order has not been dispatched)• In transport (The order has left the supplier warehouses)• Completed (The order has successfully reached its destination with no issues)• Cancelled (The order placed has been cancelled due to a variety of reasons)
Order Cancelling	A button that allows the user to cancel an order.

Table 2 - Purchase State

2.3 Validate Sale

Functionality	Description
Transport Guide	The supplier creates a transport guide for every order, containing an estimate of time until arrival.
Dispatched Sales	Sales that have been dispatched by the supplier.

Table 3 - Validate Sale

2.4 Make Sale

Functionality	Description
Current Customer	Shows the current customer which is purchasing the products.
Product information	Shows all the information that is known about the product that is being sold: <ul style="list-style-type: none">• Name• Warehouse• Available Quantity• Desired Quantity• Price per unit• Discount• IVA• Total product payment
Exchange Rate	Shown in case of sale between different types of currency.
Payment Method	All the current methods of payment that are supported by the supplier.
Billing information	Necessary information in order to successfully complete the order payment. <ul style="list-style-type: none">• Entity• Name• Reference
Order Total	Total payment required to complete the purchase.

Table 4 - Make Sale

3. Information Architecture

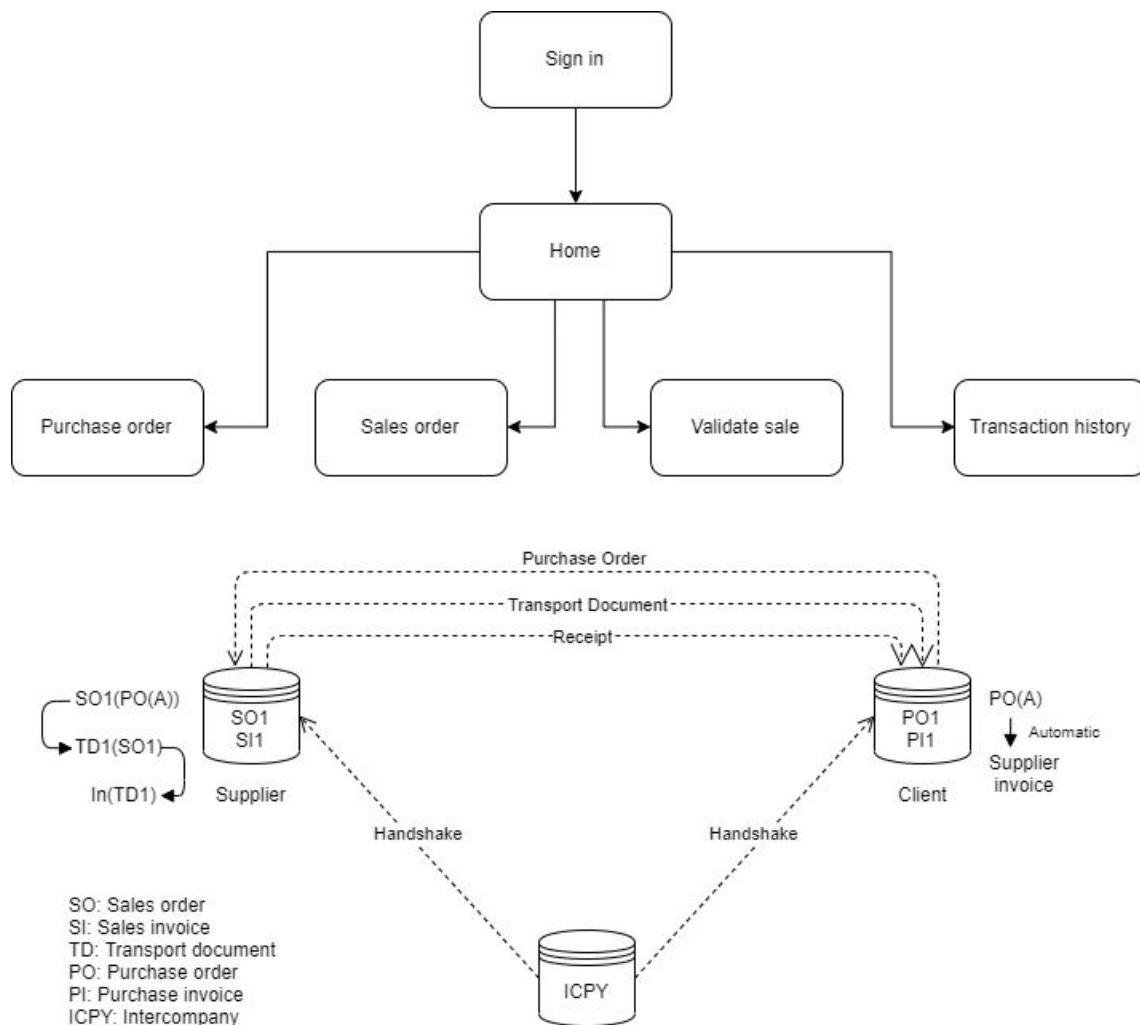


Image 1 - Information Architecture

4. BPMN

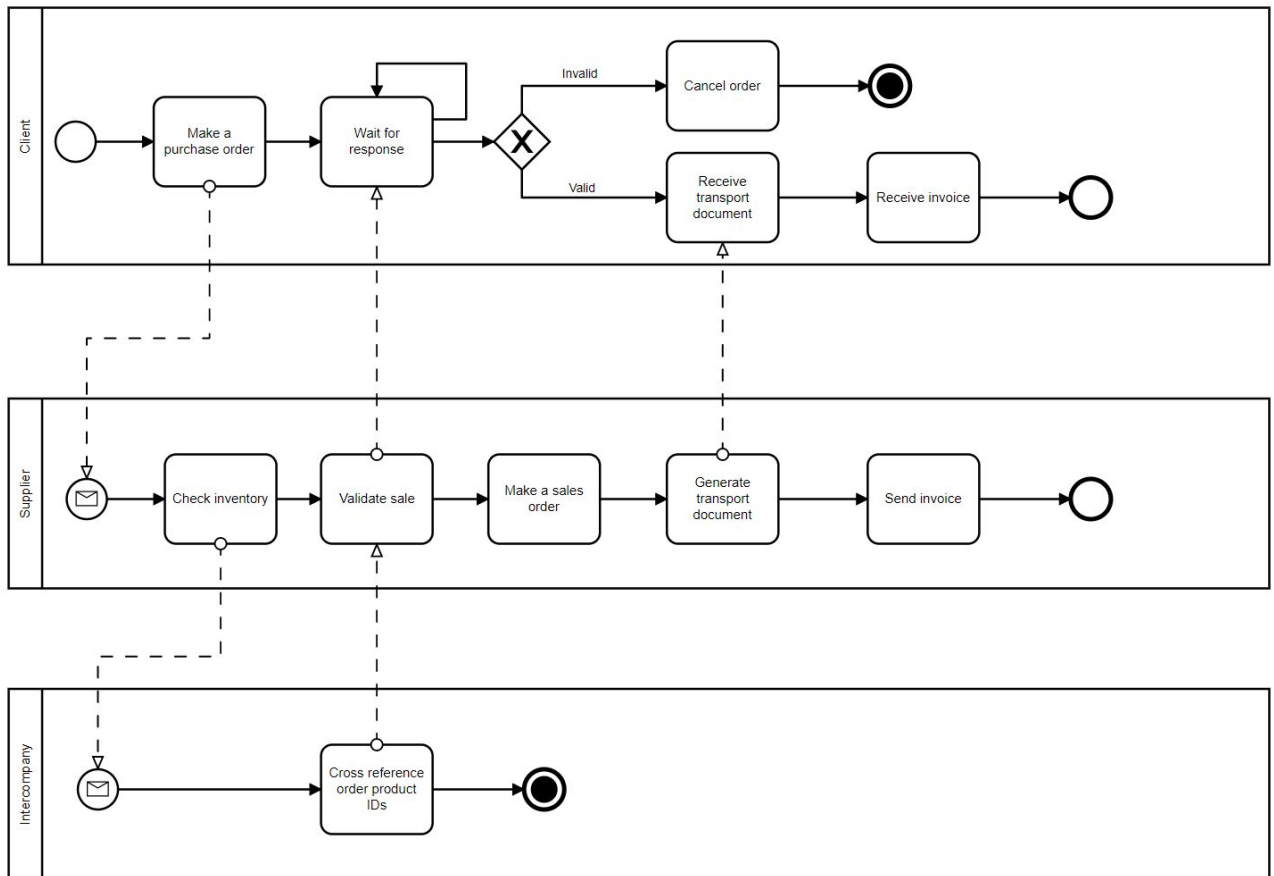


Image 2 - BPMN

5. Mockups

5.1 Purchase Order

The screenshot shows a web application interface for creating a purchase order. The header is blue with a menu icon, the title 'Intercompany', a search icon, and a settings icon. The form is divided into several sections:

- Document Information:** Includes fields for 'Tipo de Documento' (with a dropdown showing 'EC'), 'Série' (with a dropdown showing '2019' and a 'Série para o an...' link), 'Número' (with a dropdown showing '1'), 'Data' (showing '08/11/2019'), and 'Referência'.
- Supplier and Payment:** Includes 'Fornecedor' (with a dropdown showing 'Escreva para pesquisar'), 'Condição de Pagamento', 'Condição de Envio', and 'Desconto' (showing '0,00 %').
- Products and Services:** A table with columns: 'Artigo', 'Descrição', 'Armazém', 'Quantidade', 'Unidade', 'Preço Unitário', 'Desconto', 'Data de Envio', 'Tipo de IVA', and 'Total'. The table is currently empty, with a '0 items' indicator at the bottom right.
- Total:** A summary row at the bottom right showing 'Total' and '0,00 €'.

Image 3 - Purchase order

User and Business goals

- A form that allows the company to place a purchase order to the provider.

Elements of the core

- Input_001(input _widget) - Product Search
- Input_002(input _widget) - Product information
- Info_001(label_widget) - Current Supplier
- Info_002 - Product(s)
- Info_003 - Exchange Rate
- Info_004 - Billing information
- Info_005 - Order Total

5.2 Sales Order

Intercompany

Tipo de Documento: Série: 2019 (Série para o ano 2019) Número: 1 Data: 08/11/2019 Referência:

Cliente: Escreva para pesquisar Condição de Pagamento: Desconto: 0,00 % Data de Vencimento: 08/11/2019 Método de Pagamento:

Produtos e Serviços

Artigo	Descrição	Armazém	Quantidade	Unidade	Preço Unitário	Desconto	Tipo de IVA	Retenção
0 itens								

Retenção: 0,00 €

Produtos e Serviços: 0,00 €

Desconto: 0,00 €

Líquido: 0,00 €

IVA: 0,00 €

Nota ao Destinatário:

Image 4 - Sales Order

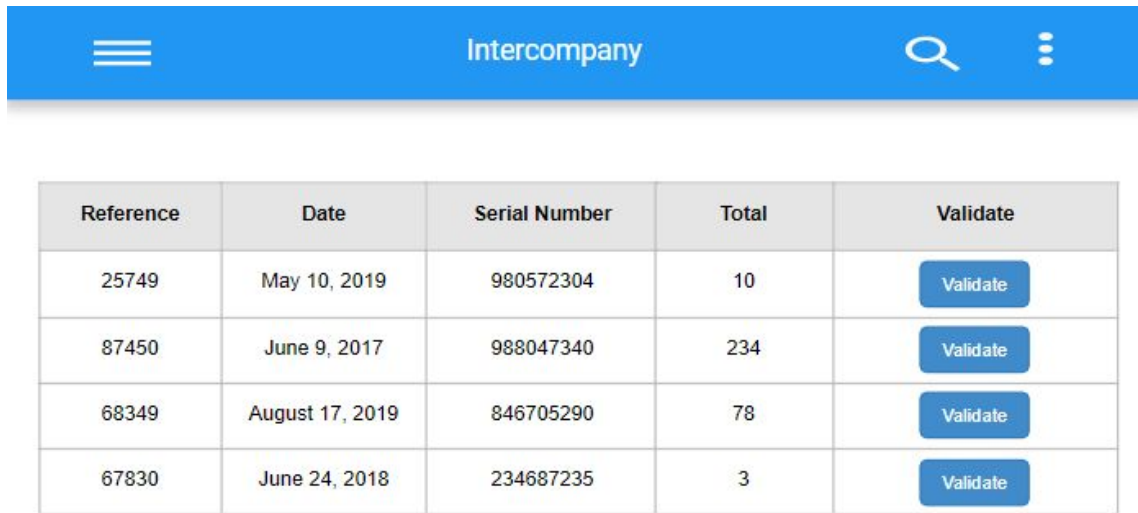
User and Business goals

- A form that allows the company to place a sales order to the client.

Elements of the core

- Input_003(input_widget) - Product Search
- Input_004(input_widget) - Product information
- Info_001 - Current Client
- Info_002 - Product(s)
- Info_003 - Exchange Rate
- Info_004 - Billing information
- Info_005 - Order Total

5.3 Valid State



The screenshot shows a mobile application interface with a blue header bar. The header bar contains a hamburger menu icon on the left, the text 'Intercompany' in the center, a magnifying glass search icon on the right, and a vertical ellipsis menu icon on the far right. Below the header bar is a table with five columns: 'Reference', 'Date', 'Serial Number', 'Total', and 'Validate'. The table contains four rows of data. Each row has a 'Validate' button in the 'Validate' column.

Reference	Date	Serial Number	Total	Validate
25749	May 10, 2019	980572304	10	<button>Validate</button>
87450	June 9, 2017	988047340	234	<button>Validate</button>
68349	August 17, 2019	846705290	78	<button>Validate</button>
67830	June 24, 2018	234687235	3	<button>Validate</button>

Image 5 - Validate Sale

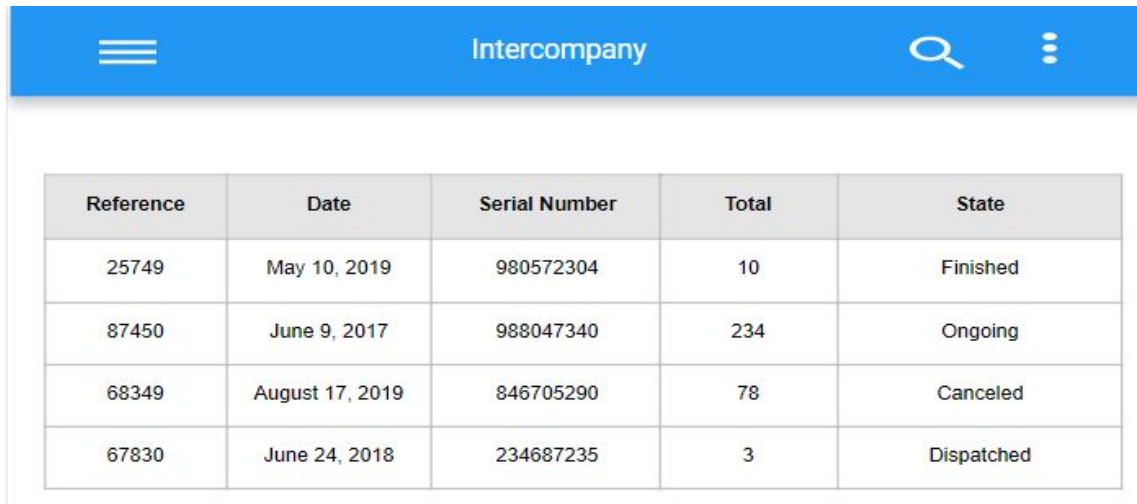
User and Business goals

- A table that allows the user to see the reference, date, serial number and total of all the sales orders that were recently dispatched or that are waiting for a transport guide.

Elements of the core

- Validate_button - Transport Guide
- Table_001 - Sales Information
- Info_001 - Dispatched Sales

5.4 Transaction History



Reference	Date	Serial Number	Total	State
25749	May 10, 2019	980572304	10	Finished
87450	June 9, 2017	988047340	234	Ongoing
68349	August 17, 2019	846705290	78	Canceled
67830	June 24, 2018	234687235	3	Dispatched

Image 6 - Transaction History

User and Business goals

- A table that allows the user to see the reference, date, serial number and total of all the purchases made by the company, as well as their status. It also gives the user the power to cancel an order.

Elements of the core

- Cancel_button - Order Cancellation
- Table_001 -Purchase History
- Info_001 - Order Status

6. Gantt project planning

