

# P1 - Online/Web Store

**Project Specification** 

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## Group AB:

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## **Project Overview**

The project consists of the development of a web application for the management of an online book store with no physical stores.

This application allows the customer the usual shopping cart and purchase order registration, access to the product catalog, the inquiry of inventory by category, the selection of the most convenient warehouse, the track of status of its order, amongst other functionalities.

There will also be information on the sales, purchases, inventory, billing and other relevant information. This will be showed for the web application administrators only.

This application will use ERP Primavera as a backoffice for the sales process and stock management. The communication between the app and the ERP will be done through a Web API in C#.

## **Functionalities/Features**

#### **Product view**

#### PRODUCT INFORMATION

- Present to the user information about the product being shown on the page: title, subtitle, author, rating, edition, type, language, if in stock, list of available warehouses, if in discount, price, some other product details like the ISBN code, editor and number of pages and book synopsis.
- This has the goal of informing the client about the product so the client can know if they're interested in the product.

#### PRODUCT BUY

- Button to be used in order to proceed with the purchase of the product.
- This has the goal of leading the client into the purchase action, giving value to both the client and the business.

## PRODUCT RELATED

- Present a small catalogue of books of the same author with the option of clicking on them to open their product page.
- This has the goal of presenting more options that can be appealing to the customer, possibly leading the customer to buying more products.

#### PRODUCT WISH

- Button to be used in order to add the product to the personal wish list.
- This has the goal to bookmark products the client is interested in so he can revisit them later.

#### **Customer profile**

## • CUSTOMER INFORMATION

- Present to the user information about him in the system: name, birthdate, email, phone number, shipping address and NIF (VAT identification number in Portugal).
- This has the goal of allowing the customer to be able to review the information and correct it in case of a mistake using the edit functionality.

#### CUSTOMER INFORMATION EDIT

- A button to the user to proceed to a screen for editing user information.
- This will allow the user to correct wrong information about themselves in the system.

#### CUSTOMER ORDERS

- Present to the user information about their orders created in the system: order number, total price, date of payment, shipping method, shipping address, billing address, estimated time of arrival, order state and order's items.
- This has the goal of the customer being able to see an overview of their orders.

#### CUSTOMER ORDER PROBLEM

- A button for the user to report a problem with the order.
- With this, the business can serve the customer, solve their problem and improve the service.

## **Product Catalogue**

## • CATALOGUE SUGGESTIONS

- Show trendy products to the user.
- This will show potentially interesting products to the user, causing the user to potentially buy listed products.

#### CATALOGUE BESTSELLERS

- Show products with the most sales to the user.
- This will show potentially interesting products to the user, causing the user to potentially buy listed products.

#### CATALOGUE CATEGORIES

- Show products of a specific category.
- This will show potentially interesting products to the user, causing the user to potentially buy listed products.

## CATALOGUE\_SEARCH

- Show products from a specific keyword.
- This will show potentially interesting products to the user, causing the user to potentially buy listed products.

## **Shopping Cart**

#### SHOPPING PRODUCT

- Show the products the user has selected to place in the shopping cart with some information: book title, subtitle, if it has discount, price, IVA (VAT) and availability.
- This allows the user to review the chosen products and adjust the quantities before paying, allowing for a better user experience.

## SHOPPING\_SUMMARY

- Summary data for the selected products: Number of products, price of the products, price of the shipping and total price.
- This is a more summarized review of the products for the user.

#### SHOPPING CHECKOUT

- Button to proceed to the payment area.
- This is an outward path of the whole website, allowing the user to pay for the selected products.

#### **Administrator Dashboard**

## • ADMIN DASHBOARD BESTSELLERS

- Show the best selling products.
- This will show the admin the most interesting products to the users with their respective sales volume and revenue, so that he can make informed decisions in the future.

#### ADMIN DASHBOARD TOP WISHLIST

- Show the products that appear more in wishlists.
- This will show the admin what are the products that the users most intend to buy with their respective sales volume and revenue, so he can make informed decisions in the future.

#### ADMIN DASHBOARD BEST CATEGORIES

- Show the best selling categories.
- This will show the admin the most interesting categories to the users with their respective sales volume and revenue, so that he can make informed decisions in the future.

## • ADMIN DASHBOARD ORDERS AWAITING SHIPMENT

• Show the total orders awaiting shipment and their respective value.

 This will show the admin the value of the products currently awaiting shipments with their respective sales volume and revenue, so that he can make informed decisions in the future.

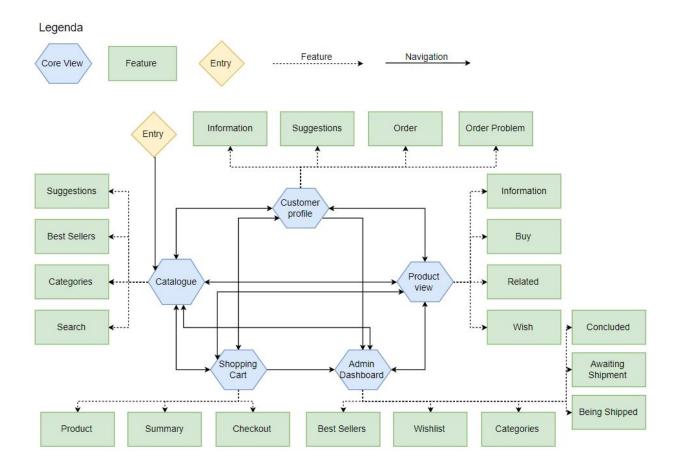
## • ADMIN DASHBOARD ORDERS BEING SHIPPED

- Show the total orders being shipped and their respective value.
- This will show the admin the value of the products currently being shipped with their respective sales volume and revenue, so that he can make informed decisions in the future.

## • ADMIN\_DASHBOARD\_ORDERS\_CONCLUDED

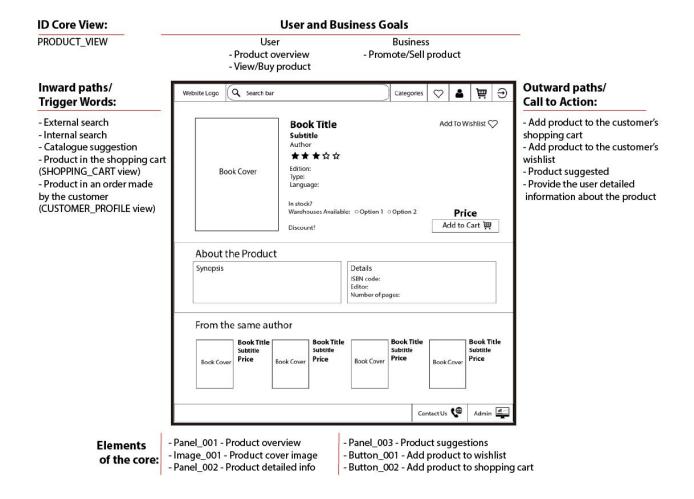
- Show the total concluded orders and their respective value.
- This will show the admin the value of the products shipments concluded with their respective sales volume and revenue, so that he can make informed decisions in the future.

# **Paths Diagram**

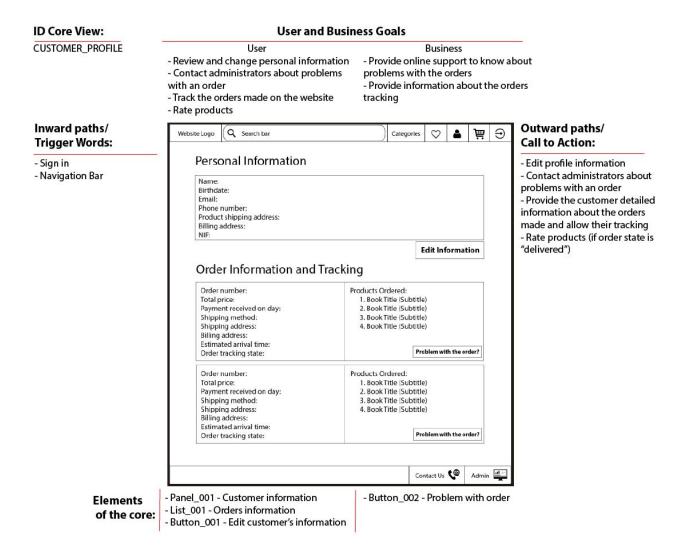


## **Information Architecture (core views)**

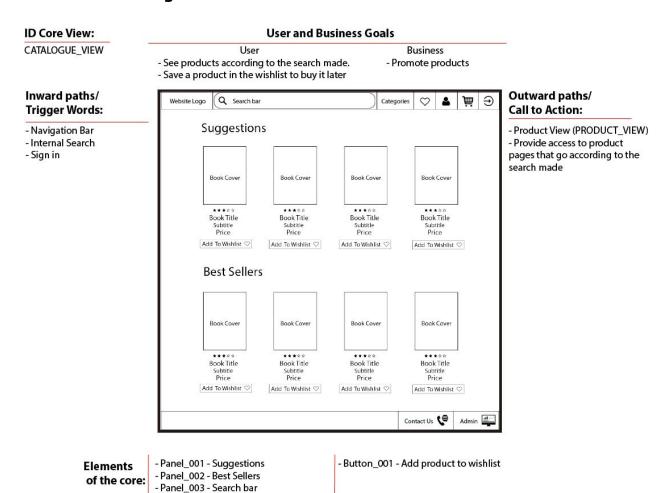
#### 1. Product view



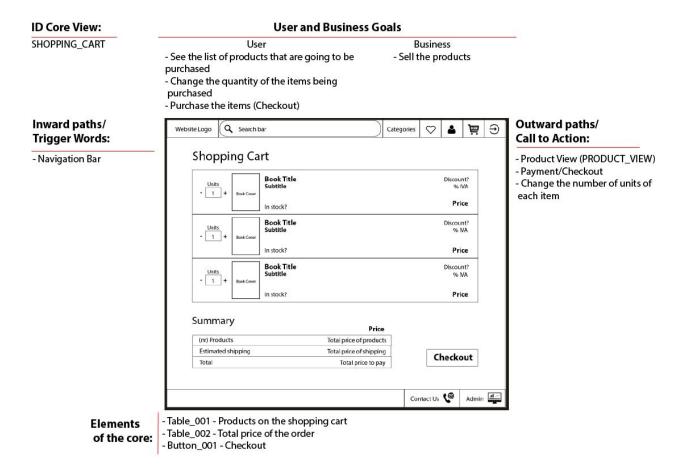
#### 2. Customer Profile



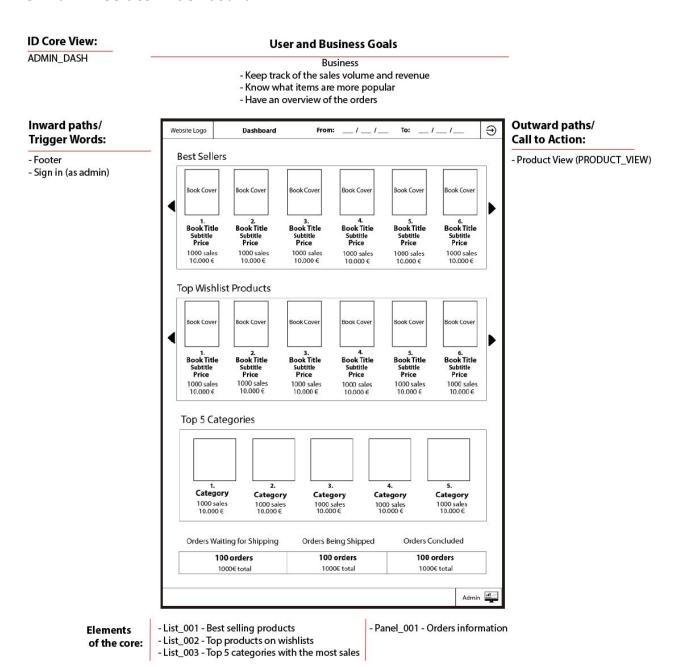
## 3. Product Catalogue



## 4. Shopping Cart



## 5. Administrator Dashboard



# **Interoperability with Primavera**

Webservice ID	Webservice Description	Related Core View(s)	Route + Verbs	Input Example	Expected Output
get_product	Return the product with the specified ID	PRODUCT_VI EW and SHOPPING_C ART	GET <ip>/api/pro duct/{id}</ip>	ProductID	{     "product"     {         "id": "x",         "subtitle": "x",         "subtitle": "x",         "edition": "x",         "type": "x",         "language": "x",         "language": "x",         "price": "x",         "price": "x",         "pages": "x",         "synopsis": "x"         {         "warehouses"         {         "1": "x",             """: "x",         }      }     } }
get_product_su ggested	Return the products related to the product with the specified ID	PRODUCT_VI EW	GET <ip>/api/pro duct/related/ {id}</ip>	ProductID	{     "suggested_products"     {         "1"         {
get_client_order s	Return the client orders	CUSTOMER_P ROFILE	GET <ip>/api/clie nt/orders/?us erId={userId</ip>	UserID and Page	{     "orders"     {     "1"

}&page={pa	{
ge}	"id": "x",
l de l	10 . X ,
	"price": "x",
	"payment_date": "x",
	"shipping_method": "x",
	"shipping_address": "x",
	"billing_address": "x",
	"eta": "x",
	"trackingState": "x"
	{
	"products_ordered"
	{
	"1"
	{
	"id": "x",
	"title". "v"
	"title": "x",
	"subtitle": "x"
	}, "2"
	"2"
	{
	"id": "x",
	"title": "x",
	"subtitle": "x"
	},
	"n"
	{
	"id": "x",
	"titlo". "v"
	"title": "x",
	"subtitle": "x"
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	},
	 "5"
	{
	"id": "x",
	"price": "x",
	"payment_date": "x",
	"shipping_method": "x",
	"shipping_address": "x",
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	"billing_address": "x",
	"eta": "x",
	"trackingState": "x"
	{
	"products_ordered"
	{
	"1"
	{
	"id": "x",
	"title": "x",
	"subtitle": "x"
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	iu : x ,
	"title": "x",
	"subtitle": "x"
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	"id": "x",
	"title": "x",
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					"subtitle": "x"
get_suggested	Return the suggested products	CATALOGUE_ VIEW	GET <ip>/api/pro duct/suggest ed</ip>	N/A	{     "suggestions"     {         "1"         {
get_best_sellers	Return the best seller products	CATALOGUE_ VIEW	GET <ip>/api/pro duct/best_sel lers</ip>	N/A	{     "best_sellers"     {         "1"         {
get_category	Return the products of a set category	CATALOGUE_ VIEW	GET <ip>/api/pro duct/?categor y={category }&amp;page={pa ge}</ip>	Category and Page	{     "category"     {         "1"         {         "id": "x",         "subtitle": "x",         "price": "x",

					} }, {   "8"   {   "id": "x",   "title": "x",   "subtitle": "x",   "price": "x" } }
get_search	Get the products of a set search	CATALOGUE_ VIEW	GET <ip>/api/pro duct/?expres sion={expres sion}&amp;page= {page}</ip>	Expressio n and Page	{     "search"     {         "1"         {
add_sale	Checkout the order made by the client	SHOPPING_C ART	PUT <ip>/api/clie nt/id</ip>	User ID	N/A
get_admin_best _sellers	Get the best selling products	ADMIN_DASH	GET <ip>/api/ad min/best_sell ers?startDate ="yyyy-mm- dd"&amp;endDate ="yyyy-mm- dd"</ip>	StartDate and EndDate	{   "best_sellers"   {   "1"    {     "id": "x",     "subtitle": "x",     "price": "x",     "value": "x"   }   },    {   "10"   {     "id": "x",     "title": "x",     "subtitle": "x",     "price": "x",     "subtitle": "x",     "price": "x",     "sales": "x",     "value": "x",

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					} } }
get_admin_best _categories	Get the top sold categories	ADMIN_DASH	GET <ip>/api/ad min/best_cat egories?start Date="yyyy- mm-dd"&amp;end Date="yyyy- mm-dd"</ip>	StartDate and EndDate	{   "top_categories"   {   "1"    {     "name": "x",     "sales": "x",     "value": "x"   }   },    {     "5"    {     "name": "x",     "sales": "x",     "value": "x"   }   } }
get_admin_orde rs_being_shippe d	Get stats on the orders being shipped	ADMIN_DASH	GET <ip>/api/ad min/being_sh ipped?startDa te="yyyy-mm -dd"&amp;endDat e="yyyy-mm -dd"</ip>	StartDate and EndDate	{   "orders_being_shipped"   {   "total_sales": "x",   "total_value": "x"   } }
get_admin_orde rs_awaiting_shi pment	Get stats on the orders awaiting shipment	ADMIN_DASH	GET <ip>/api/ad min/awaiting _shipment?st artDate="yyy y-mm-dd"&amp;e ndDate="yyy y-mm-dd"</ip>	StartDate and EndDate	{   orders_awaiting_shipping   {   "total_sales": "x",   "total_value": "x"   } }
get_admin_orde rs_concluded	Get stats on the concluded orders	ADMIN_DASH	GET <ip>/api/ad min/orders_c oncluded?star tDate="yyyy- mm-dd"&amp;end Date="yyyy- mm-dd"</ip>	StartDate and EndDate	{   orders_concluded   {   "total_sales": "x",   "total_value": "x"   } }