Things to be defined:

‘APP-NAME’

‘PRODUCT-NAME’ Example in the use case of a product being bought (such as a shirt or phone)

Notes:

Search for (…?) and you will find what we do not know yet for sure

Empty sections can be freely filled

A picture containing logo

Description automatically generated

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| --- | --- | --- |
|  | DIMA – E-SHOPPING ‘APP-NAME’ | |
| Design Document | |
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|  | AY 2021/2022 |

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8. Introduction
   1. Document Purpose

This document has the purpose to clearly define the functionalities that the system-to-be will provide, the goals it strives to achieve and indicate general use cases. It will also define the general behavior and specific limitations of the system. This document is primarily addressed to the programmers and mostly includes technical language.

* 1. Document structure
  2. Application Purpose

Our application ‘APP-NAME’ has the specific purpose of creating a simple but slick , user-friendly interface which connects clients and the vendor allowing them to respectively buy and sell products. ‘APP-NAME’ does not try to encapsulate many different markets and show all of them in the same application but rather (…?)

‘APP-NAME’ allows the vendors to share their products with all the users of the application as to achieve a higher degree of publicity.

* 1. Definitions

Users: Every person who uses our application.

Clients: All users except for vendors.

Vendor: An entity which can use the application to publish its products to be sold.

1. Overall description

With this project we attempt to create a user-friendly, adaptive, and reactive mobile application that connects clients and vendors with one-another. We try to offer a seamless experience for all types of handheld devices such as smartphones and tablets and our ‘APP-NAME’ is available for Android and iOS devices so that adaptability will never be a problem. We try to help the users, and future clients of this application with their shopping by allowing them to check different products that might be of their interest with the tap of a finger.

(something-something about general description of app)

The application is divided into four main sections:

* Home screen

This section is the first meeting point of the user with the application and products that are offered, so it will try to attract clients with a smooth and simple interface with the point of focus being not overcrowding the user’s mind with too many different choices as it is seen that it would be harder for them to make a decision on which product they would like to buy[1,2]. The home screen will thus solely contain a carousel with the featured products of the day and, following it will be a one-by-one view of all the products that the client has not yet seen. What we mean by a one-by-one view, is that each product’s image, title and/or description, and finally cost will be shown on the screen one after the other, without ‘competitor products’ congesting the screen.

* Map screen

This section will try to be a connecting point between the physical shops that are found close to the client and the client itself. Not only will it show the shops’ position but also a featured list of products that the shop contains, so to know what to expect. The featured list will be a short but concise list of products, as to follow the philosophy of the application of being simple-but-effective.

This part of the application is important for the clients that just browse products on ‘APP-NAME’ but want to see the physical product before buying it.

* Product’s screen

This screen is important because it is the deciding step of a client’s acquisition of the product. As such it will allow the product to be the focus of the screen without trying to push for other ‘similar’ products that the user might want to buy with the scope of guaranteeing focus on each product.

* Cart’s screen

This is the screen in which we will suggest other products that users might want to buy and push for more sales. Not only will it show the summary of the products that the user will buy, but it will contain ‘advertisements’ (…? IDK what else to write), so if the client has forgotten anything it might appear before the check-out of the order.

1. Application design

‘APP-NAME’’s design philosophy is simplicity and the focus on helping the client carry out the operations that they want. As such the application design will represent these ideas in the areas of functionalities and interface design. The system architecture will define the underlying structure which will help with the operability of the functions the application provides.

* 1. Functionalities

The most important functionality we provide is the ability to view each product singularly and focus on the visual preview of the product instead of its name or description in the home screen and let the attractiveness of the product draw the client to buying it.

After a client decides to buy the product, our application provides the ability to request the product at one’s desired location and preferred date and sends this information to the vendor of the product.

With the help of external services, the payment is carried out inside the application without the need to log in. The client will need to fill the form with its personal information and credit card details. This information will be then only used for the order and not associated with a user for privacy reasons.

As cited in the [map section](#MapScreenSectionDescription), we offer the possibility to view shops close to the client and the associated products to that shop. This is done with the help of the Google Maps external service and when a point on the map is pressed the list-view of that shop’s products will be shown.

Another important feature of the application is the ability to give all products the ability to be visualized by each client and as such in the main screen a simple recommender system will show different products each time the user opens the application.

* 1. Interface design

With the focus on simplicity in design and aiding the user on the interaction with the products to be sold, we implement an interface that contains as little text as needed.

[CHANGE Images (…?)]

(To change the text highlighted in red…?)

The home screen will contain a carousel bar which shows the featured products on the top and scrolling to the bottom of the screen will show many different items. The client can then view these one after the other by scrolling. It is important to note that only one product will be shown in this list view (ignoring the carousel).

In every screen we also see the bottom bar navigation which contains the Home-Screen icon, Map icon, User icon, and Cart icon. Each button sends the user to the section of the application it is named after. An important aspect of the navigation is the fact when the user changes screens from a starting section to a destination section, the navigation history will not be lost from the starting section.



Successively the map screen will look as in the following figures, with the screen on the left showing only the shops close by and the screen on the right, after a marker press, showing the related products.

![Graphical user interface, application

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEBLAEsAAD/4TsmRXhpZgAATU0AKgAAAAgACAALAAIAAAAmAAAIegEOAAIAAABjAAAIoAESAAMAAAABAAEAAAExAAIAAAAmAAAJBAEyAAIAAAAUAAAJKoKYAAIAAAALAAAJPodpAAQAAAABAAAJSuocAAcAAAgMAAAAbgAAEc4c6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAU21hcnRwaG9uZSB3aXRoIGFwcCBpY29ucy4gRVBTMTAgd2l0aCBsYXllcnMgKHJlbW92ZWFibGUpIGFuZCBhbHRlcm5hdGUgZm9ybWF0cyAoaGktcmVzIGpwZywgcGRmKS4gAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAMjAyMjowNToyOSAxNTo0NTo1NwBFVC1BUlRXT1JLUwAABpADAAIAAAAUAAARpJAEAAIAAAAUAAARuJKRAAIAAAADMzQAAJKSAAIAAAADMzQAAKABAAMAAAABAAEAAOocAAcAAAgMAAAJmAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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user interface, application

Description automatically 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tapping on a product from anywhere inside the application, the application will redirect the client to the product’s singular page where the description will be available to be read by the client. In this screen a cart button and a buy button are present with the usual behavior that is expected, also detailed in the [‘Client buying a product’](#ClientBuyingAProduct) sequence diagram.

![Graphical user interface, application

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEBLAEsAAD/4TsmRXhpZgAATU0AKgAAAAgACAALAAIAAAAmAAAIegEOAAIAAABjAAAIoAESAAMAAAABAAEAAAExAAIAAAAmAAAJBAEyAAIAAAAUAAAJKoKYAAIAAAALAAAJPodpAAQAAAABAAAJSuocAAcAAAgMAAAAbgAAEc4c6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAU21hcnRwaG9uZSB3aXRoIGFwcCBpY29ucy4gRVBTMTAgd2l0aCBsYXllcnMgKHJlbW92ZWFibGUpIGFuZCBhbHRlcm5hdGUgZm9ybWF0cyAoaGktcmVzIGpwZywgcGRmKS4gAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAMjAyMjowNToyOSAxNTo0NTo1NwBFVC1BUlRXT1JLUwAABpADAAIAAAAUAAARpJAEAAIAAAAUAAARuJKRAAIAAAADMzQAAJKSAAIAAAADMzQAAKABAAMAAAABAAEAAOocAAcAAAgMAAAJmAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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user can tap the back button to navigate back to the previous page or tap any of the bottom bar navigation buttons to be redirected to any of their screens without losing information on the current screen.

![Graphical user interface, application

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEBLAEsAAD/4TsmRXhpZgAATU0AKgAAAAgACAALAAIAAAAmAAAIegEOAAIAAABjAAAIoAESAAMAAAABAAEAAAExAAIAAAAmAAAJBAEyAAIAAAAUAAAJKoKYAAIAAAALAAAJPodpAAQAAAABAAAJSuocAAcAAAgMAAAAbgAAEc4c6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAU21hcnRwaG9uZSB3aXRoIGFwcCBpY29ucy4gRVBTMTAgd2l0aCBsYXllcnMgKHJlbW92ZWFibGUpIGFuZCBhbHRlcm5hdGUgZm9ybWF0cyAoaGktcmVzIGpwZywgcGRmKS4gAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAMjAyMjowNToyOSAxNTo0NTo1NwBFVC1BUlRXT1JLUwAABpADAAIAAAAUAAARpJAEAAIAAAAUAAARuJKRAAIAAAADMzQAAJKSAAIAAAADMzQAAKABAAMAAAABAAEAAOocAAcAAAgMAAAJmAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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 
The cart screen will contain all the products that the user wants to buy but has not finalized buying yet. It will be a list view with the quantities of the requested products plus the unitary price, image, and title of the product. The client can press the plus button to add more of the same product to the cart or press the minus button to remove one product at a time. In the bottom of the page, a checkout button will be shown so the client might finalize their shopping experience. The following shows one example screen that the user might see.

The user screen will contain the personal information of the user, and the list of the favorite products that the user has added. (…?)

* 1. System Architecture

1. Back-end implementation
   1. E-R Schema

Diagram, schematic

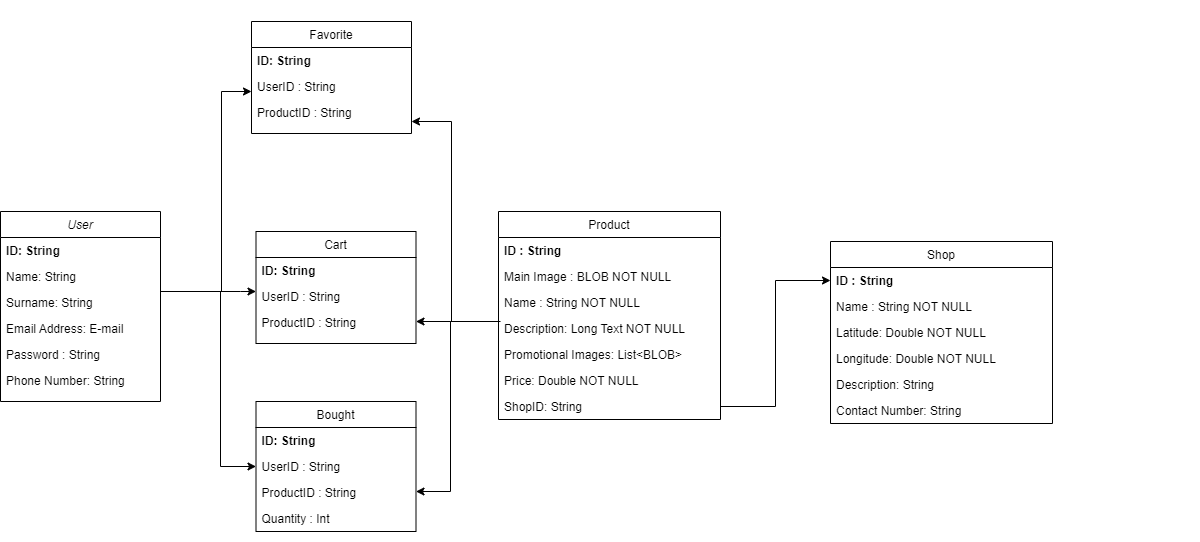
Description automatically generatedWith regards to the back-end we decided to use a document-oriented database with the help of Firebase’s [Realtime database](https://firebase.google.com/docs/database) with the objective to have an easy to use and responsive DBMS (more about it in the [external service’s section](#ExternalServicessection)). With it we will implement the following E-R scheme:

-Entities:

* Users: The persons who will use the application to buy products
  + Attributes: The most interesting attributes of the users are their personal data so as to allow us to identify different people from each-other. As such we can say that the user’s full name, email address, phone number and location are key attributes to store. This last attribute will also allow us to suggest close-by stores to the person’s current location.
* Products: The article to be sold
  + Attributes: The image of the product, its price, name, and descriptions all are key attributes.
* Shops: The (possibly many) vendor(s) which publish products.
  + Attributes: The shop’s location, name, description, and contact number are important attributes to allow the application to function correctly.

-Relationships:

* Bought: A relation between the user and product which counts how many times the product has been bought by the user. This could be useful for a future implementation of the recommender system.
* Cart: A relation between the user and product which stores in memory all the products which the users will possibly buy in the future.
* Favorite: A relation between the user and product which stores in the database all the products which the user really likes.
* Publishes: A relation between the shop and the product that is or was available to be bought.
  1. Logical Schema

As for the logical schema we decide to implement the following schema:

We have opted for this solution, following the requirements of the E-R schema, general rule of thumbs and common design patterns used for the creation of a database. The main problem with the database would be the conversion from the NoSQL, JSON-formatted text data to something that is application-usable for the on-app representation. As such a global database manager class will be used to convert and locally store all JSON-data, into usable variables inside the application’s data model.

1. External Services and Libraries

Our ‘APP-NAME’ strives to be an intermediary for all clients and vendors, both with respect to their connection and their orders and payments. In that regard it needs to use external services which are ready off-the-shelf. Starting from:

-PayPal / Stripe, allows the users to pay for the products online safely and securely. It lets (…?)

-Firebase Authenticator provides the main identification method of all users, storing their email, password, and unique user-id. This last attribute is used as the key inside the Firebase Realtime Database to store all other information regarding the user’s relations with the products. Firebase authenticator was chosen to be used for its ease of use in helping build secure authentication systems, and to improve the authentication experience for end users.

-Google Maps contributes to the extension of the main functionality of our project. It allows users to find close-by shops with the help of the much popular interface that Google Maps provides.

-Firebase Realtime Database has been chosen as the storage platform and DBMS for its advantage in terms of scalability and security. In it we store everything shown in the [logical schema](#LogicalScheme). Since the Realtime Database stores the data in a NoSQL model, some slight modifications are needed to store the many-to-many relationships. For instance, we store in each user not only the information shown in the logical schema but also three other documents with key

\* ‘Bought’ to identify all the product ids of the products that the user bought,

\* ‘Favorites’ to identify all the liked products’ ids of each user

\* ‘Cart’ to identify all product ids of the soon-to-be-bought products. This is also stored in the database in case the user does not buy the product immediately and wants to continue shopping from another device.

All this information is stored in a document-based model, which need to be converted from a JSON-formatted text to our model’s objects as specified in section 4 in [Logical Schema](#LogicalScheme).

Many libraries have been used to improve the look-and-feel of the application such as the provider package, which implements lazy loading of the product’s data and simplified resource management utilizing the publish, subscribe pattern. Another one is the carousel slide, used in many parts of the application. This library allows for example to show the featured products in a more condensed way. Another important package is the location package which retrieves the current position of the device, used mainly in the map screen to show close by shops.

1. Use Cases & Tests
   1. Use case example

The first use case that comes to mind is of a client C. who wants to buy a ‘PRODUCT-NAME’. He first opens our application and sees in the carousel slide all the featured products. Since C. is not interested in any of them, he searches the main screen’s list view to find the product he is searching for. Because he is not logged in and the recommender system cannot suggest any products for him, he uses the search bar to search for ‘PRODUCT-NAME’. In there he sees two products for which he is interested. He taps the first one and sees that it is not what he specifically wants. He taps the back button and taps the second item that interested him. This time, the product is of C.’s liking, and he decides to buy it. A screen shows that he needs to log-in or register before going on with the purchase. After entering his personal information, location, and credit card details the order for the ‘PRODUCT-NAME’ is placed.

In the following sections we show all the sequence diagrams of this example and furthermore other diagrams that clarify the intended implementation of the map and cart components.

* + 1. Client scrolling the homepage

As soon as our client C. opens our application, a future instantiator will be called to get the reference of the Realtime Database (RTDB) so that the application can fetch all data regarding the products. In the meantime, the application returns the loading screen until the database reference has been returned at which point a query for the first N products will be carried on. The application afterwards will build the screen to be viewed from the client.

* + 1. Client using the search bar

If the client C. requires another product which has not been shown on his screen, he can simply tap the search bar on top of the screen and enter the product name. At that instant the application sends the query to the database which will return all the products that satisfy the query. Once the application has retrieved the information, it will use it to create a view on top of the screen (without navigating to another screen) and update the current screen. This new list-view can be scrolled through and each element inside of it might be pressed to redirect to the product’s page, so a better view can be had.

* + 1. Client buying a product

Diagram

Description automatically generatedOnce a client has decided to buy a product one way to carry out the payment is to click on the buy button. This is the only operation that requires an identification for reasons related to the payment, so if the user is not logged in yet, he is redirected to the login screen. After having logged in, the payment screen will be shown with a form to enter the order details such as the location, preferred delivery date and credit card details. This order is then subdivided by each product and only the tuple   
(userID x productID x location x deliveryDate) will be stored in the database. Another supply chain management application will then connect the order to each shop, but this part is outside of the scope of the application.

* + 1. Client logging in

A client might want to register or log in to ‘APP-NAME’ so that he might have his cart automatically updated between different devices which he might want to use to enter inside our application.  
The login process follows standard procedures as in many other applications, during which the application must verify that the fields have been filled correctly and that the user exists already.

After logging in, the user screen (also known as LoggedIn screen) will be returned to the user with the list of his favorite products and user details that he might want to update.

* + 1. Client registration

A client might want to register or log in to ‘APP-NAME’ so that he might have his cart automatically updated between different devices which he might want to use to enter inside our application. The registration process follows standard procedures as in many other applications, during which the application must verify that the fields have been filled correctly and that another user with the same email address does not already exist.

The cart that had been stored in a local variable of the application memory is then stored in the database as well and the LoggedIn screen gets returned.

* + 1. Client adding items to the cart

If a client wants to add items in the cart to buy many products contemporarily, he simply will need to press the cart button on the product’s screen and the application will store the product for a later purchase in the local memory. If the client is logged in this data will be stored in the database too as shown in the following sequence diagram.



* + 1. Client uses map

When the client wants to see the shops nearer to him, he might simply press the map button inside the bottom navigation bar. This will cause the application to send a query to the database to retrieve all shops that are close to the phone’s location. If any of the markers shown on the map are pressed, then a preview of the products of that certain shop will pop up on the screen while the map is still present which allows the client to know what products are featured in each shop.

* 1. User Tests & Unit Testing

We have implemented many unit tests such as(…?). Furthermore, a usability evaluation has been carried out with user testing. Users showed that the interface was easy to use although some had problems with the fact that they could not navigate (…?) :

1. References

[1]:  [S. Mathew, J. Joseph, Differential Impact of Information Display Formats on Consumer Decision-making, page 175-179, Proceedings of the 2014 Annual Conference of the Emerging Markets Conference Board January 9–11, 2014,](https://www.researchgate.net/profile/Baba-Gnanakumar/publication/309359634_Modelling_the_Nested_Mark_Modelling_the_Nested_Markets'_Prices_during_ets'_Prices_during_Festival_Season/links/5c53176c92851c22a39e3427/Modelling-the-Nested-Mark-Modelling-the-Nested-Markets-Prices-during-ets-Prices-during-Festival-Season.pdf#page=213)

[2] : [G. A. Pignatiello , R. J. Martin, R. L. Hickman Jr. , Decision fatigue: A conceptual analysis, Journal of Health Psychology 2020, Vol. 25](https://journals.sagepub.com/doi/pdf/10.1177/1359105318763510)

1. Etc…