

Commenti e modifiche al documento principale

<b>Pagina 1: ha inserito</b>	<b>Giorgio Romeo</b>	<b>25/12/2020 20:27:00</b>
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<b>Pagina 1: ha formattato</b>	<b>Giorgio Romeo</b>	<b>25/12/2020 20:27:00</b>
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Tipo di carattere: +Corpo (Calibri)

<b>Pagina 1: Formattato</b>	<b>Giorgio Romeo</b>	<b>25/12/2020 20:27:00</b>
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Normale, Allineato a sinistra

<b>Pagina 1: ha formattato</b>	<b>Giorgio Romeo</b>	<b>25/12/2020 20:27:00</b>
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Tipo di carattere: 20 pt

<b>Pagina 1: ha formattato</b>	<b>Giorgio Romeo</b>	<b>25/12/2020 20:27:00</b>
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Tipo di carattere: 22 pt

<b>Pagina 1: ha formattato</b>	<b>Giorgio Romeo</b>	<b>25/12/2020 20:28:00</b>
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Tipo di carattere: 16 pt, Corsivo

<b>Pagina 1: ha formattato</b>	<b>Giorgio Romeo</b>	<b>25/12/2020 20:28:00</b>
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Tipo di carattere: 16 pt, Corsivo

<b>Pagina 1: ha inserito</b>	<b>Giorgio Romeo</b>	<b>25/12/2020 20:27:00</b>
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*PE*

*A)*

<b>Pagina 1: ha eliminato</b>	<b>Giorgio Romeo</b>	<b>25/12/2020 20:27:00</b>
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<b>Pagina 1: ha formattato</b>	<b>Giorgio Romeo</b>	<b>25/12/2020 20:28:00</b>
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Tipo di carattere: 16 pt

<b>Pagina 1: ha formattato</b>	<b>Giorgio Romeo</b>	<b>25/12/2020 20:28:00</b>
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Tipo di carattere: 16 pt, Corsivo

<b>Pagina 1: ha formattato</b>	<b>Giorgio Romeo</b>	<b>25/12/2020 20:28:00</b>
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Tipo di carattere: 16 pt

<b>Pagina 1: ha formattato</b>	<b>Giorgio Romeo</b>	<b>25/12/2020 20:28:00</b>
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Tipo di carattere: 16 pt, Corsivo

<b>Pagina 1: ha formattato</b>	<b>Giorgio Romeo</b>	<b>25/12/2020 20:28:00</b>
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Tipo di carattere: 16 pt

<b>Pagina 1: ha formattato</b>	<b>Giorgio Romeo</b>	<b>25/12/2020 20:29:00</b>
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Tipo di carattere: 16 pt, Corsivo

<b>Pagina 1: ha formattato</b>	<b>Giorgio Romeo</b>	<b>25/12/2020 20:28:00</b>
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Tipo di carattere: 16 pt

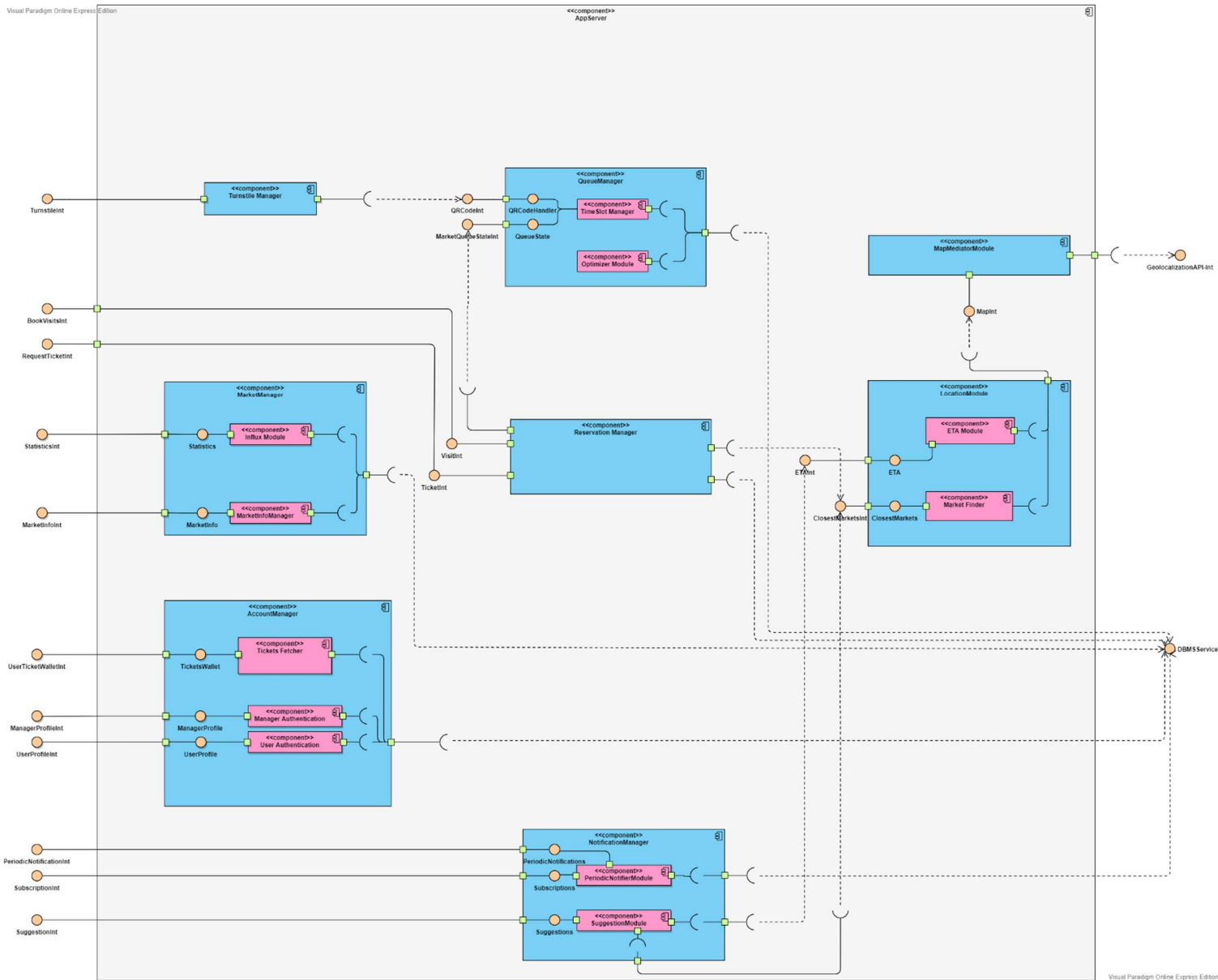
<b>Pagina 1: ha formattato</b>	<b>Giorgio Romeo</b>	<b>25/12/2020 20:29:00</b>
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Tipo di carattere: 16 pt, Corsivo

<b>Pagina 1: ha formattato</b>	<b>Giorgio Romeo</b>	<b>25/12/2020 20:28:00</b>
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Tipo di carattere: 16 pt

<b>Pagina 3: ha inserito</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 11:23:00</b>
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A)

Pagina 3: Commentato [CS1]

Cristian Sbrolli

29/12/2020 04:03:00

Missing market finder to database interface

Pagina 3: ha inserito

Cristian Sbrolli

27/12/2020 11:22:00

A)

Pagina 4: ha eliminato

Cristian Sbrolli

27/12/2020 11:28:00

[SHOULDN'T ETA BE IN LOCATION MODULE]

Pagina 4: ha eliminato (???)	Cristian Sbrolli	27/12/2020 10:30:00
Pagina 4: Commentato [CS2] IS MANAGER COMPONENT NECESSARY??	Cristian Sbrolli	27/12/2020 11:29:00
Pagina 4: ha inserito	Cristian Sbrolli	27/12/2020 11:29:00
Pagina 4: ha inserito this	Cristian Sbrolli	27/12/2020 10:30:00
Pagina 4: ha eliminato it	Cristian Sbrolli	27/12/2020 10:30:00
Pagina 4: ha eliminato has to	Cristian Sbrolli	27/12/2020 11:30:00
Pagina 4: ha inserito must	Cristian Sbrolli	27/12/2020 11:30:00
Pagina 4: ha eliminato them	Cristian Sbrolli	27/12/2020 10:30:00
Pagina 4: ha inserito him	Cristian Sbrolli	27/12/2020 10:30:00
Pagina 4: ha inserito visits	Cristian Sbrolli	27/12/2020 11:31:00
Pagina 4: ha eliminato ticket requests to be carried out	Cristian Sbrolli	27/12/2020 11:31:00
Pagina 4: ha eliminato [ADD INTERFACE TO LOCATION MODULE]	Cristian Sbrolli	27/12/2020 10:31:00
Pagina 4: ha inserito provide the functionalities required by tickets and visits requests i.e.,	Cristian Sbrolli	27/12/2020 11:32:00
Pagina 4: ha inserito	Cristian Sbrolli	27/12/2020 16:22:00
Pagina 4: ha eliminato all	Cristian Sbrolli	27/12/2020 16:22:00
Pagina 4: ha eliminato	Cristian Sbrolli	27/12/2020 11:31:00

free

Pagina 4: ha inserito	Cristian Sbrolli	27/12/2020 11:31:00
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available

Pagina 4: ha eliminato	Cristian Sbrolli	27/12/2020 11:31:00
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and

Pagina 4: ha eliminato	Cristian Sbrolli	27/12/2020 16:24:00
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show a

Pagina 4: ha inserito	Cristian Sbrolli	27/12/2020 16:24:00
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gets the info that will allow the presentation layer to build

Pagina 4: ha eliminato	Cristian Sbrolli	27/12/2020 16:24:00
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all

Pagina 4: ha inserito	Cristian Sbrolli	27/12/2020 11:31:00
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, handle visits additional info...(See interface diagram for a more detailed list)

Pagina 4: ha eliminato	Cristian Sbrolli	27/12/2020 11:34:00
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. It also provides internal interfaces that will aid the functionalities of other components. [Why is ticket fetcher in user mng and not in reservation mng?]

Pagina 4: ha inserito	Cristian Sbrolli	27/12/2020 11:35:00
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handling notifications of two types:

Pagina 4: ha inserito	Cristian Sbrolli	27/12/2020 11:35:00
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-r

Pagina 4: ha eliminato	Cristian Sbrolli	27/12/2020 11:35:00
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r

Pagina 4: ha eliminato	Cristian Sbrolli	27/12/2020 11:34:00
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of the time

Pagina 4: ha eliminato	Cristian Sbrolli	27/12/2020 11:35:00
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their

Pagina 4: ha inserito	Cristian Sbrolli	27/12/2020 11:35:00
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so

Pagina 4: ha inserito	Cristian Sbrolli	27/12/2020 11:36:00
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; to do this, the component interfaces with the maps provider, getting info on ETA.

Pagina 4: ha eliminato	Cristian Sbrolli	27/12/2020 11:36:00
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,

Pagina 4: ha inserito	Cristian Sbrolli	27/12/2020 11:36:00
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<b>Pagina 4: ha inserito</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 11:37:00</b>
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suggestions

<b>Pagina 4: ha eliminato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 11:37:00</b>
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periodical information

<b>Pagina 4: ha inserito</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 11:38:00</b>
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relevant

<b>Pagina 4: ha inserito</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 11:37:00</b>
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and timeslots

<b>Pagina 4: ha inserito</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 11:37:00</b>
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or the user is inactive.

<b>Pagina 4: ha eliminato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 11:37:00</b>
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and suggestions of available stores in specific requested times.

<b>Pagina 4: ha eliminato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 11:39:00</b>
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to provide

<b>Pagina 4: ha inserito</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 11:39:00</b>
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are provided by

<b>Pagina 4: ha eliminato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 11:39:00</b>
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provides

<b>Pagina 5: ha inserito</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 11:39:00</b>
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This is the most critical and important component of the system, as it defines and handles timeslots and the queue. Through the timeslot manager subcomponent, timeslots are searched to see or update their availability on new tickets requests. It also generates QR Codes for new tickets and visits, assigning them to available timeslots, and checks QR Codes on scan, so to correctly update the state of the queue in that timeslot.

<b>Pagina 5: ha formattato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 11:39:00</b>
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Tipo di carattere: Non Corsivo

<b>Pagina 5: ha eliminato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 11:47:00</b>
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Which generates all the information regarding all booked and available tickets, such as the free time slots, the validation of tickets in entrances and exits inside stores. It also forwards this information to the database to be stored for a longer interval of time.

Pagina 5: ha inserito	Cristian Sbrolli	27/12/2020 11:47:00
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The other components is a timeslot optimizer, that is a periodic activated component, which handles aspects of the optimization of timeslots, as the maximum number of people that can enter considering info about user visits that declared their shopping list or departments they will visit; another possible optimization is the duration of timeslots, performed once in a greater period of time w.r.t. to the previous one, that could optimize the duration of timeslots based on the average shopping duration.

Pagina 5: ha eliminato	Cristian Sbrolli	27/12/2020 12:08:00
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all the

Pagina 5: ha inserito	Cristian Sbrolli	27/12/2020 12:07:00
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in a range

Pagina 5: ha inserito	Cristian Sbrolli	27/12/2020 12:07:00
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given

Pagina 5: ha inserito	Cristian Sbrolli	27/12/2020 12:08:00
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, filtering on the stores that are registered and use CLup; it also provides the ETA services, needed by other components to have an estimation of the user distance (quantified in time) from the given location. To provide these services, it interfaces with the Mediator, that will then process and forward requests to the external API.

Pagina 5: ha eliminato	Cristian Sbrolli	27/12/2020 12:07:00
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. [SHOULDN'T THIS HAVE NO SUBCOMPONENTS? See comment above too]

Pagina 6: ha formattato	Giorgio Romeo	25/12/2020 20:30:00
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Tipo di carattere: 16 pt, Corsivo

Pagina 6: ha inserito	Giorgio Romeo	25/12/2020 20:29:00
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Pagina 6: ha eliminato	Giorgio Romeo	25/12/2020 20:29:00
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*v*

*A)*

Pagina 6: ha formattato	Giorgio Romeo	25/12/2020 20:30:00
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Tipo di carattere: 16 pt

Pagina 6: ha formattato	Giorgio Romeo	25/12/2020 20:30:00
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Tipo di carattere: 16 pt, Corsivo

Pagina 6: ha formattato	Giorgio Romeo	25/12/2020 20:30:00
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Tipo di carattere: 16 pt

<b>Pagina 6: ha formattato</b>	<b>Giorgio Romeo</b>	<b>25/12/2020 20:30:00</b>
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Tipo di carattere: 16 pt

<b>Pagina 6: ha formattato</b>	<b>Giorgio Romeo</b>	<b>25/12/2020 20:30:00</b>
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Tipo di carattere: 16 pt, Corsivo

<b>Pagina 6: ha formattato</b>	<b>Giorgio Romeo</b>	<b>25/12/2020 20:31:00</b>
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Tipo di carattere: 16 pt, Corsivo

<b>Pagina 6: ha formattato</b>	<b>Giorgio Romeo</b>	<b>25/12/2020 20:30:00</b>
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Tipo di carattere: 16 pt

<b>Pagina 7: ha eliminato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 12:15:00</b>
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Provide an overview on how the user interface(s) of your system will look like; if you have included this part in the RASD, you can simply refer to what you have already done, possibly, providing here some extensions if applicable

1)

<b>Pagina 7: ha inserito</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 12:15:00</b>
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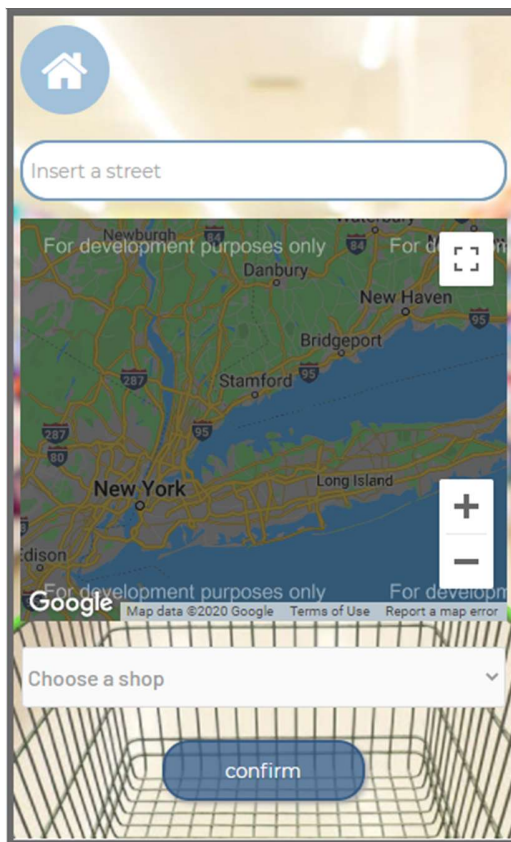
1)

Here we include some draft mockups about how the mobile applications and the web application should look like. As they are drafts, these are not to be intended as strictly constraining designs: backgrounds, styles, text formatting and page structure are simplified and rough, as we want just to give an idea of the general schema of the pages.

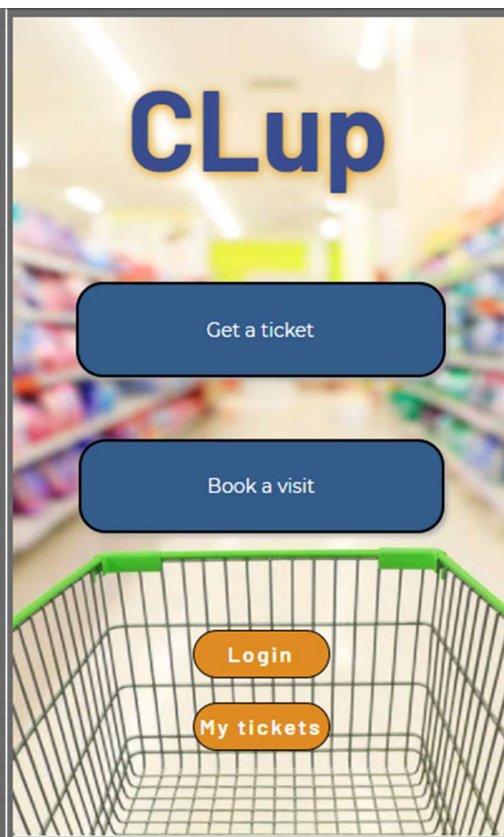
*3.1* Mobile App Mockups



SHOP SELECTION



HOME PAGE OF THE APP

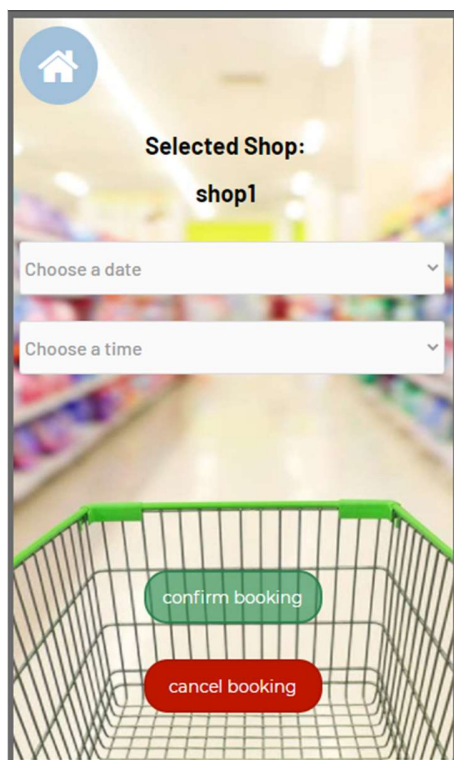


As already mentioned in RASD, the mobile app must have simple and intuitive interfaces, as to be easily usable by users that may not be practical with technology (as may be elderly people).

The app will allow user to define first either the shop or the date and time, in the case of “Book a visit”, it is not shown in this demo because it is similar and irrelevant.

*\*Mockups are taken from an interactive graphic demo with graphic-driving purposes only, linked in the “reference documents” paragraph.*

#### BOOK A VISIT AS REGISTERED USER



Selected Shop:  
shop1

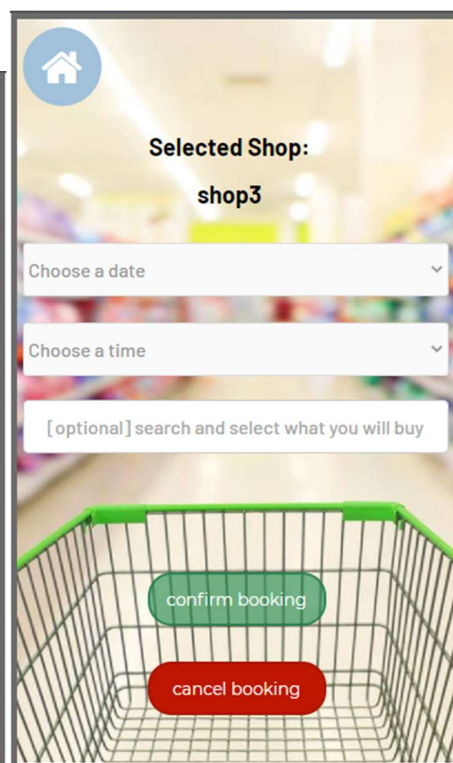
Choose a date

Choose a time

confirm booking

cancel booking

TICKET PROPOSAL



Selected Shop:  
shop3

Choose a date

Choose a time

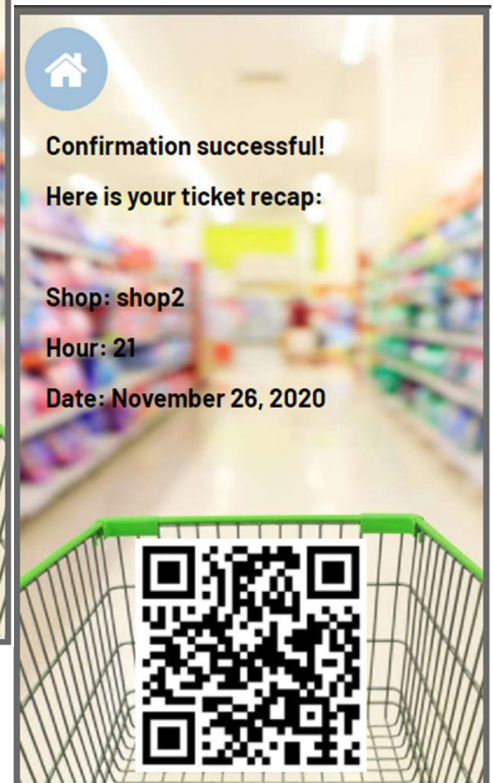
[ optional ] search and select what you will buy

confirm booking

cancel booking

#### BOOK A VISIT AS GUEST

##### TICKET CONFIRMATION



Confirmation successful!

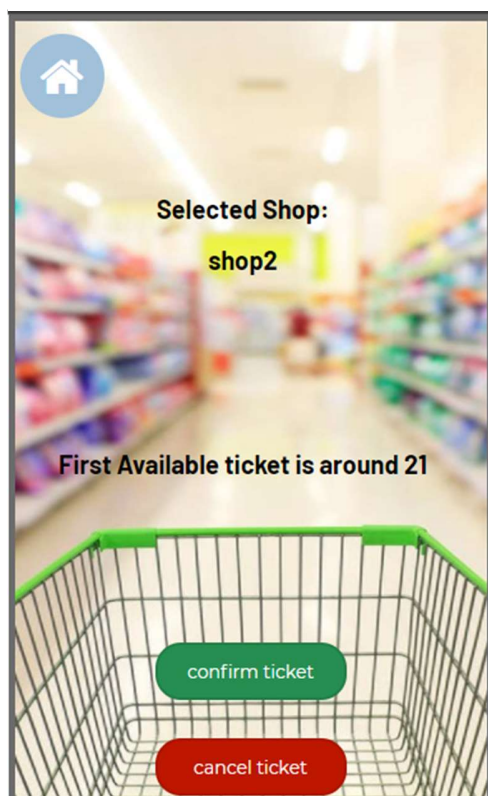
Here is your ticket recap:

Shop: shop2

Hour: 21

Date: November 26, 2020

QR code



Selected Shop:  
shop2

First Available ticket is around 21

confirm ticket

cancel ticket

*In the case of “book a visit”, after the shop selection, the app will allow registered users to select their*

*shopping list:*

<b>Pagina 7: ha formattato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 12:23:00</b>
Tipo di carattere: Bell MT, Non Corsivo		
<b>Pagina 7: Formattato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 12:26:00</b>
SpazioDopo: 10 pt, Numerazione automatica + Livello:1 + Stile numerazione: 1, 2, 3, ... + Comincia da:1 + Allineamento: A sinistra + Allinea a: 0.63 cm + Imposta un rientro di: 1.27 cm		
<b>Pagina 7: ha formattato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 12:23:00</b>
Tipo di carattere: Bell MT		
<b>Pagina 7: ha formattato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 12:26:00</b>
Tipo di carattere: 16 pt, Corsivo, Inglese (Stati Uniti)		
<b>Pagina 7: ha formattato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 12:31:00</b>
Tipo di carattere: Non Corsivo, Inglese (Stati Uniti)		
<b>Pagina 7: ha formattato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 12:31:00</b>
Tipo di carattere: Non Corsivo		
<b>Pagina 7: ha formattato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 12:31:00</b>
Tipo di carattere: Non Corsivo, Inglese (Stati Uniti)		
<b>Pagina 7: ha formattato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 12:31:00</b>
Inglese (Stati Uniti)		
<b>Pagina 8: ha formattato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 12:23:00</b>
Inglese (Stati Uniti)		
<b>Pagina 8: ha formattato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 12:32:00</b>
Tipo di carattere: Bell MT		
<b>Pagina 8: Formattato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 12:32:00</b>
Normale, Rientro: Sinistro: 1.27 cm, Nessun elenco puntato o numerato		
<b>Pagina 8: ha inserito</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 12:33:00</b>

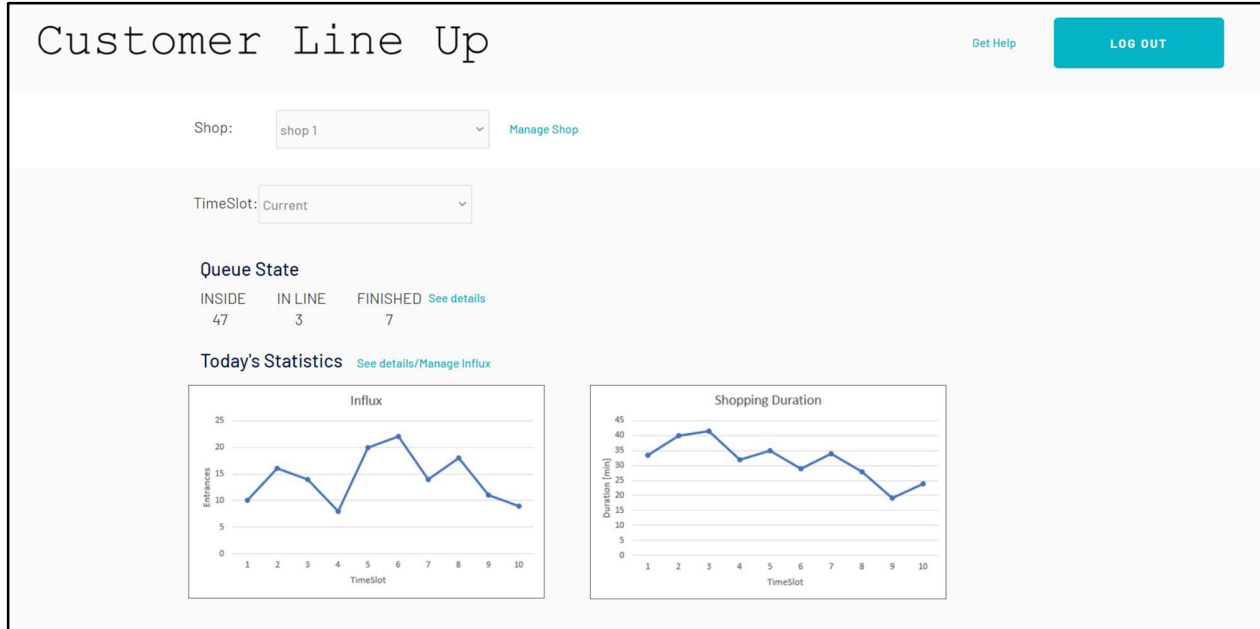
### 3.2 Shop Manager Web App mockups

The web app for managers will allow only to login with an authorized account. For security purposes, such account cannot be registered directly through the Web App, but it has to be set up by CLup System staff through certified communication with the market/market chain.

The web app must allow managers to trace entrances, to see the queue state of any timeslot, and to see statistics as average time of shopping and the average influx in a given period.

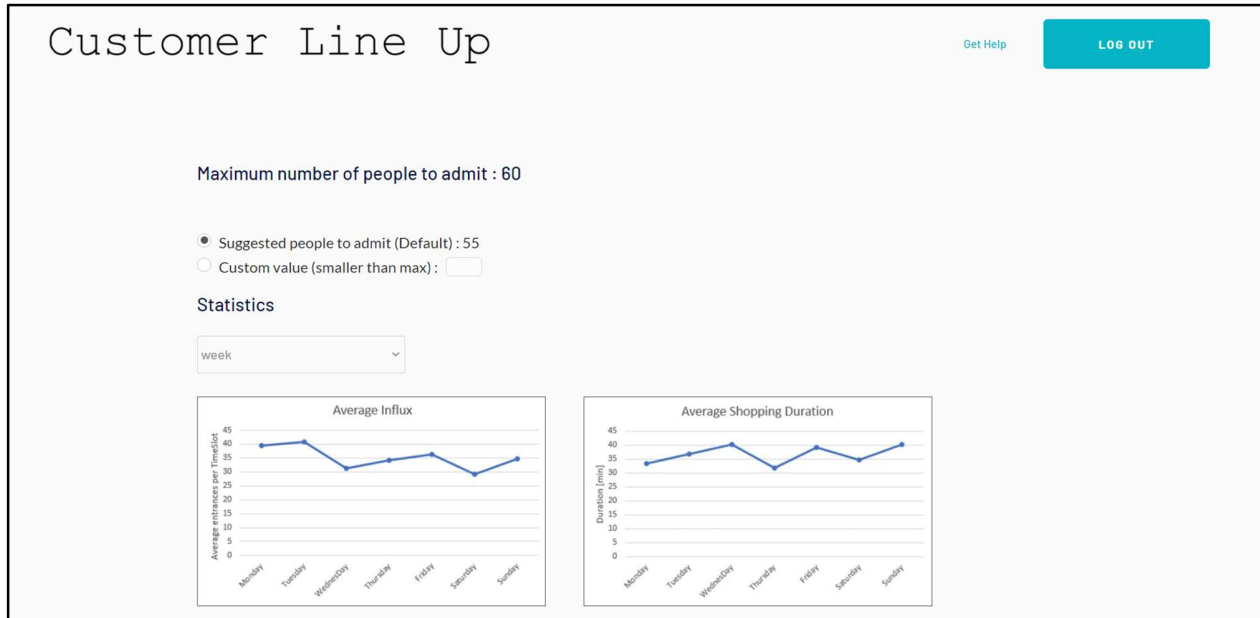
In the real app other statistics may be implemented, as the most declared shopping items or departments (given by user that specified these elements in their visits). Graphics in the real app may be interactive, allowing more interactivity, usability and utility.

#### WEB APP HOMEPAGE



The “Manage Shop” page is not shown here, it simply allows managers to add or update logistics info for the shop, as product positions or departments. It just lists departments and their items.

#### WEB APP STATISTICS PAGE



## WEB APP QUEUE STATE

Customer Line Up					Get Help	LOG OUT
TimeSlot:	Current					
UserId	Reservation Date	Shopping List	DurationExpressed	State		
1	2020-01-12	Yes <a href="#">See</a>	No	FINISHED		
2	2020-01-12	No	35m	IN LINE		
Physical	2020-01-12	x	x	INSIDE		

The page shown upon clicking the “See” button next to the declared shopping list is not shown here, since it is unnecessary as it simply shows the list of declared items.

As shown in the image, physical users have no Id, but they still are tracked and considered correctly in the queue state.

<b>Pagina 9: ha formattato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 13:44:00</b>
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Inglese (Stati Uniti)

<b>Pagina 9: ha formattato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 13:41:00</b>
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Inglese (Stati Uniti)

<b>Pagina 10: Formattato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 13:35:00</b>
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Normale, Rientro: Sinistro: 0 cm, Prima riga: 0 cm

<b>Pagina 10: Formattato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 12:41:00</b>
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Paragrafo elenco, Rientro: Sinistro: 1.25 cm, Prima riga: 0.02 cm

<b>Pagina 10: ha formattato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 12:33:00</b>
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Tipo di carattere: Bell MT

Modifiche Intestazione e piè di pagina

Modifiche caselle di testo

<b>Pagina 9: ha inserito</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 13:33:00</b>
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WEB APP HOMEPAGE

<b>Pagina 9: Formattato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 13:35:00</b>
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Didascalia, Allineato al centro, Rientro: Sinistro: 0 cm, Prima riga: 0 cm, Non mantenere con successivo

<b>Pagina 9: ha inserito</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 13:34:00</b>
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WEB APP STATISTICS PAGE

<b>Pagina 9: Formattato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 13:35:00</b>
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Allineato al centro

<b>Pagina 10: ha inserito</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 13:36:00</b>
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WEB APP QUEUE STATE

<b>Pagina 10: Formattato</b>	<b>Cristian Sbrolli</b>	<b>27/12/2020 13:36:00</b>
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Didascalia

Modifiche caselle di testo Intestazione e piè di pagina

Modifiche note a piè di pagina

Modifiche note di chiusura