
Software requirements specifications

Project: App Italian Food Restaurant
Team: GitSoft Team



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1 Introduction

The system required for a specific Italian food restaurant can satisfy various needs or requirements that the user has expressed. In this case we have focused on one in particular. The main purpose of this system in question is to provide comfort to the user or the operating staff of said restaurant when handling customer information and facilitating their payment method.

1.1 Purpose

Recording a customer's information can save time for the customer's next visit. While the method of payment through a system, avoids conflicts due to the issue of change and saves time for the restaurant and for the client. This is all for better performance.

1.2 System Scope

The system that we have implemented can be perfectly used for any food business that wants to establish a little more order and facilitate their daily work, through these new systems that technology offers us.

1.3 Overview

In general terms, the system that is expected to provide the user consists of a menu, where the customer must first register their data, which will later be saved in the restaurant's database for a next visit. Then the client will have the opportunity to view the entire menu of the restaurant, with their respective prices, so that in this way they can choose the food of their preference. Once selected, a pop-up window will appear so that the customer can make the payment and enjoy the food they have selected.

2 General description

2.1 Product perspective

The application for the Italian restaurant "Di Tutto`s" to be developed must meet the requirements given by the client, being easy to use, simple navigation and facilitating the workflow in our client's business, specifically at the time that an order is needed at home, avoiding the need for the customer to go to the business in person and also giving several online payment options.

2.1.1 System Interfaces

It is a system which depends on being installed on each customer's computer. The system will require interfaces with the hardware of the installed computer since it is a "desktop application", which means that all the interaction of the different users will be only in the developed application.

2.1.2 User Interfaces

All the user interfaces are presented in the application, within the .jar file that is delivered to both the business owner and the users.

2.1.3 Hardware Interfaces

There are no hardware interfaces to this system.

2.1.4 Software Interfaces

The system is executed and its interfaces are displayed when executing a requested order.



2.2 Product Functions

Previously, all the information given by our client was analyzed, the requirements to be programmed were proposed and developed. In some cases, the need was found to create new functions or characteristics that, regardless of whether the client gave them to us, must be created since there is a dependency relationship and they could not work on their own.

2.3.1 Enterprise Requirements:

2.2.1 Any user can register their data to be able to use the application.

The application will show in its interface the option so that each client can register and be able to use the system, the information will be kept by the business administrator to process the orders and orders.

2.2.2 All business information is presented in the system

The business information in its entirety will be presented in the interfaces of the program in case of being requested by the user.

2.2.3 Business rules in the application

The main business rule that needs to be developed is the information for the online payment method, the program must store the information of each customer who pays their orders for ease of administration, whether economic or structural.

2.3 User Characteristics

There are 2 types of users in the application, the customer who requests the service and the business administrator. The distinction between them is that the customer can only register their data, view the food menu offered, place their order and select your payment method. On the other hand, the administrator or owner of the business can view all the information entered by the clients, control what orders are being made and at what moment they can be delivered to the client, he verifies if the payments are made correctly and provides information if necessary. .

The majority of users will be clients, they will be able to request specific information from the owner and they must be guaranteed that their data will be of unique and exclusive use to create and process the order.

2.4 Constraints

There are a large number of restrictions to be able to use the application correctly, the system is based on java and it is a desktop application that must be opened only from a computer (not a web browser, not a smartphone), the system will only comply with the requests that are presented in the interface, The type of data that is entered by keyboard will be controlled, for example, in the option to enter a telephone number it will not be possible to enter letters or other types of characters, the client can make any number of orders but if an erroneous activity is detected such as creating several repeated orders must be corrected to avoid problems in the correct flow of the application, the program may present errors if it is not rectified, the payment method must be correct and attention must be paid to the type of data that is requests.



2.5 Apportioning of Requirements

The application for Italian food restaurant "Di Tutto`s" intends to be a fully operational and complete system with its first release version. However, there are some features that could be released at a future date if needed. If it is necessary to develop a new function for the system, it will be implemented..

3 Specific Requirements

This section specifies the requirements which the system shall meet.

3.1 External Interfaces

In its first version, the application is executed on the command line where, through text, it presents the options that the user can carry out, it is planned that later this application will be made with GUI interfaces in java, where all kinds can be displayed. of windows, images, screens, pop-up windows, widgets and that will help a better user experience with the program, being more intuitive, resembling several programs that we use every day where the graphical interface is essential.

```
*****Choose the option*****
1. Register your information
2. Order the food
3. Pay the order
4. Exit
Please type the option: 2
-----Menu Food-----
1. Pizza
2. Milanese
3. Panini
4. Rissoto
5. Drink
6. Exit
Enter what you want to order

2. Order the food
3. Pay the order
4. Exit
Please type the option: 1
*****Enter Data*****
Customer name:
Marco
Address:
Sangolqui
Email:
marco777k@gmail.com
```

3.2 Functions

3.2.1 Register Information

Use Case Name:	Register Information
Identifier:	REQ-01
Description:	The user can enter their personal data to be able to place an order at the restaurant.
Goal:	The user data will facilitate the business administrator to create and deliver the order.
Status:	Active
Version:	1.0
Autor:	Yorman Oña, Allan Panchi, Elkin Pabon, Diego Pilataxi
Creation date:	23/11/2022
Modified date:	27/12/2021
Pre conditions	The application must give the option and request the data from the client.



Basic Flow: The client enters the application and goes to the option to register data, enters them and the system saves them.

Actor: System

User:

1. Enter their personal data.
2. The information is saved in the program.
3. Continue with the established flow of the system.

Alternative Flow: If the customer does not appear in the application data, the option to contact customer service to solve the problem will be presented.

Post conditions: By entering the application, the user enter their personal data and will be able to access all the features of the app “Di Tutto’s”

3.2.2 Menu Display

Use Case Name:	Menu Display
Identifier:	REQ-02
Description:	The system displays a window where the menu is displayed with all the products offered by the restaurant for the user to choose.
Goal:	The user can find out about everything that the restaurant offers and it is easier to order.
Status:	Active
Version:	1.0
Autor:	Yorman Oña, Allan Panchi, Elkin Pabon, Diego Pilataxi
Creation date:	23/11/2022
Modified date:	28/12/2021
Pre conditions	The user must enter their personal data for the following option to be displayed in the program
Basic Flow: The client enters the application and goes to the option to register data, enters them and the system saves them, then a menu with all the products is shown on the screen and the user must choose.	
Actor:	System
User:	<ol style="list-style-type: none">1. The application shows all the available menu of the restaurant.2. The user chooses the desired product.3. The application saves the order information.



Alternative Flow: If the menu does not appear in the application, the option to contact customer service to solve the problem will be presented.

Post conditions: By entering the application, the user enter their personal data and will be able to access all the features of the app “Di Tutto`s”, like the menu of the products.

3.2.3 Shopping cart

Use Case Name:	Shopping cart
Identifier:	REQ-03
Description:	The user chooses the products for his order, the shopping cart option is displayed to verify the quantity of product and the total price to pay.
Goal:	The user will know in detail everything that his order contains to avoid confusion or errors.
Status:	Work in progress
Version:	-
Autor:	Yorman Oña, Allan Panchi, Elkin Pabon, Diego Pilataxi
Creation date:	-
Modified date:	-
Pre conditions	The application must record data and display the menu with the option to choose.
Basic Flow: The client enters the application and goes to the option to register data, enters them and the system saves them, then a menu with all the products is shown on the screen and the user must choose, the program gives the option to go to the shopping cart in case the user no longer wants to add products to his order and the order information is displayed-	
Actor:	System
<ol style="list-style-type: none">1. The customer enters the application2. The customer registers their personal data.3. Continuing with the established flow of the system, a menu is displayed for you to choose the products offered by the restaurant.4. Once the order is finalized, the shopping cart option is displayed so that the user can view the information of his order and the total price in detail.	
Alternative Flow: If the shopping cart option does not appear, the option to contact customer service to solve the problem will be presented.	



3.3 Performance Requirements

- Efficient and fast operating system
- Save information in order and in the place specified by the user
- System interface readable, easy to use and adaptable to the environment of the establishment
- Good data entry and specify the place where you want to save, because otherwise the program may have inconsistencies.
- Ask the client to correctly enter both their personal data and their data to proceed with the payment, the idea is to optimize time, in case these data are not entered correctly, it can take a little more time.
- The system operator must take into account the place where the information will be saved in the type of file requested, because when it is needed, a disorganization may occur in other types of files already saved previously.
- If there is any change in the prices of the restaurant menu, it must be notified in advance so that the respective changes can be made in time so that this change does not affect the daily operation of the restaurant.