



Software requirements specification

Software Engineering

Group: Techware

Members: Baez Gabriel
Calderón Jilmar
Calvache Gabriel
Casignia Diego

1. INTRODUCTION

The system was required for a bakery whose main purpose is to measure the skills of employees based on their efficiency and effectiveness. For which the program must provide information of the employees, regarding the hours of work and the amount of sales made

1.1. Purpose

The purpose of this program is to give an account of the hours worked by each employee, in addition to providing the number and the efficiency and effectiveness of the vendors, which will have the performance measurement parameters of each of the employees.

1.2. System scope

The program created can be used by any food production establishment that wants to measure the performance of its employees.

1.3. General description

Specifically, the program will be created to establish the efficiency and effectiveness of the employees, with which it will be possible to obtain measurement parameters that will become the product of the system, which is nothing more than the result in numbers and percentage of work performance.

2. General description

2.1 Product Perspective

The application that will be developed for the bakery "Panes de la Rumiñahui" must meet the requirements requested by the client, easy to understand and use, it must allow recording the hours of entry and exit of employees, the charges made by each employee including the payment method that was used, what product was sold and how much of that product is still available. Likewise, if it is used by several employees at the same time, the information must be able to be updated for all of them without any problem.

2.1.1 System interface

The program must be installed on computers belonging to the establishment for its correct use, since the information must only be accessible to the workers of said establishment and because this is a computer application.

2.1.2 User Interfaces

The user interface must be clear, concise and legible so as not to generate confusion or errors when entering the necessary data. Likewise, it must include aids so that the user knows how to handle it correctly. Have a simple but functional design.

2.1.3 Hardware Interfaces

The application must be compatible with keyboard and mouse for interaction and input of information.

2.1.4 Software Interfaces

This must include the options to enter entry and exit times. Register the products sold, the payment method used and the income generated from the sale, as well as register the employee who made this transaction. It must include a Login option to differentiate between employees and administrative staff. In the case of administrative personnel, they will have an option to enter the information of each employee and thus keep a record of their activities.

2.2 Product functions

The program proposes an option so that administrative staff can have better control over the quality of work of employees. Through the control of their working hours, products sold and the profits they generate.

2.3 User Characteristics

The user to whom we are addressing is the owner of a bakery who seeks to renew his business with the help of new technologies. The user requires software that allows him to control sales and the working hours of his workers

2.4 Restrictions

Employees cannot have access to the information collected by the program, much less be able to manipulate said information. Only the business owner will have access to this information.

3. SPECIFIC REQUIREMENTS

This section specifies the system requirements

3.1 Interfaces Externas

In its first version, the application runs on the command line where through text the options that the employee can execute are presented, in the future with the help of GUI interfaces in java, where the display of windows can be improved,

images, pop-up windows, which will help to provide a better user experience with the program, being more intuitive with the graphical interface.

3.2 Functions

3.2.1 Information record

Use Case:	Information record
Identifier:	RQ-01
Description:	The employee enters his username and password.
Goal:	The data entered allows the employee to access the system to be able to record the time of entry.
Status:	In progress
Version:	1.0.0
Autor:	Baez Gabriel, Calderon Jilmar, Calvache Gabriel, Casignia Diego
Creation date:	7/5/2023
Modified date:	-
Pre conditions	The application must show its interface in which it requests the data

Basic Flow:	The employee enters the application, goes to the login section, enters them and the system saves the data.
Actor:	System
User:	<ol style="list-style-type: none"> 1. Enter your username and password. 2. The program saves the information. 3. The program continues to the next step.
Alternative Flow:	If the option to enter data does not appear in the lower left part there will be a button that requests technical help.
Post conditions:	When entering the requested data, the employee enters the system and will have the options of registering the time of entry, exit and later the sales made.

3.2.2 Main screen

Use Case:	Main screen
Identifier:	RQ-02
Description:	The program displays a screen or window in which the options to record the entry/exit time and another in which the sales are recorded appear.
Goal:	The employee will be able to record their entry/exit time and the sales they are making.
Status:	In progress
Version:	1.0.0

Autor:	Baez Gabriel, Calderon Jilmar, Calvache Gabriel, Casignia Diego
Creation date:	7/5/2023
Modified date:	-
Pre conditions	The employee had to enter the requested data for the main screen / options to appear.
Basic Flow:	Having entered the data, the employee will be able to view the options to register.
Actor:	System
User:	<ol style="list-style-type: none"> 1. The program shows all the options that the employee can choose. 2. The employee enters the options that he wishes to register. 3. The program saves the data.
Alternative Flow:	If the main screen does not appear, there will always be the option of technical support, the employee will have help immediately.
Post conditions:	By entering the requested data, the employee enters the system and will have the options of recording the time of entry, exit and later the sales made.

3.2.3 System output

Use Case:	System output
-----------	---------------

Identifier:	RQ-03
Description:	The program ends when the employee chooses the option to log out.
Goal:	The employee will be able to record their entry/exit time and the sales they are making.
Status:	In progress
Version:	1.0.0
Autor:	Baez Gabriel, Calderon Jilmar, Calvache Gabriel, Casignia Diego
Creation date:	7/5/2023
Modified date:	-
Pre conditions	Employee must clock out and at least one sale in order for the program to close
Basic Flow:	The employee records their data, the system saves them and advances to the main screen where the options to record hours and sales appear, to finish the program the employee will record their departure time and at least have one sale, the program will save all the data entered and close the session.
Actor:	System

User:	<ol style="list-style-type: none"> 1. The employee records the sales he makes. 2. The employee records his departure/completion time. 3. The employee chooses the option to log out. 4. Once the option is selected, the program will verify that it meets the conditions. 5. The program will save the data and close the session
Alternative Flow:	If the option to log out does not appear, the option of technical support will be at the bottom, the employee will have immediate help.
Post conditions:	The system will save the registered data and finish.

3.3 Performance requirements

- Efficient, effective and fast system
- Easy interface to understand and use.
- Save information as the employee enters data.
- The data is automatically saved in the default path.
- Request the employee to meet the specified requirements.
- The employee will have a username and password granted by the same system.
- The option of technical support will always be active.