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Member identification

Currently the team is composed of:

S.I.V.E.   I.S.B.O.   3° IF

- Dino: will work in the roles of developer and analyst, will be in charge of requirements analysis, will have design tasks.
- Estela: will perform tasks as a developer and analyst, with experience in the administrative field.
- Francisco: role of developer and analyst, with knowledge in databases, will participate in design tasks.
- Marcelo: his role will be developer, he will also perform tasks in the testing phase.

The project team will be organized as follows:

- Dino: full stack project leader, architect, analyst and developer.
- Estela: designer, analyst and frontend developer.
- Francisco: analyst and developer.
- Marcelo: developer and tester.

We choose a mode of controlled decentralized team, having several supervisors for each area or task, with a paradigm of organization of a random type, where the initiative of the members prevails, as well as assigning tasks if it's necessary.

Mission y vision

Mission

bit&bit work, aims to satisfy the software needs of our clients, in a variety of online areas. Counting on constant updates, being at the forefront of new technologies, innovating to improve the efficiency of our product.

Vision

To be the leading company in software development at a national and international level, supplying computer solutions, providing the established and adapted software quality standards to optimize the productivity of our customers.

System design considerations

Regarding the client's needs, the company wants to build a system for buying and selling items that can be used in the client's business or its branches and in any other PC with an internet connection. This system allows the registration of customer-type users who can buy products. The creation of seller-type users who can manage the products, as well as make sales, and the creation of company-type accounts to manage the type accounts seller and view some reports, as well as an administrator account will be created to manage the accounts and get some reports. Through the requirements collected during meetings with the client, it is decided to develop a web system that can be used inside and outside the company's network and it is also easier to maintain and allows its scalability.

The system will allow the management of purchasing and selling of new or used items of national or international origin, this includes user management, inventory management, as well as allowing viewing reports such as best sellers, best-selling products, most viewed products.

With the creation of this system, it is thought to satisfy the needs raised by the client as well as to be user-friendly.

According to the study carried out by the team during the analysis stage where the requirements were surveyed and validated, other software of the same nature were studied; it is decided to use the iterative with prototyping model to deliver user interfaces to the client, a variant of the cascade model that allows several iterations to be made.

Objectives, requirements, success criteria and limitations

Our main objective is to develop a software adaptable to the needs of our clients, giving the support that each one needs, using the resources provided by current technology. Permanently seeking to stand out for quality and support for the satisfaction of our customers.

General requirements

G1. The system will have the following roles: buyer, company, seller and administrator.

G2. Each role will have its own permissions and functionalities which will be defined later in this document.

G3. Each user will enter the system by registering with their authentication credentials, which are: email and password.

G4. The system will perform monthly backups.

G5 - The system will allow the purchase of an item to registered buyer users, these procedures will be explained later.

G6 - The system will allow the sale of products to registered seller users, these procedures will be explained later.

CUSTOMER

C1- The system will allow new clients to be registered, being identified by their email and the following information being of interest: name, surname, ID, address, telephone, email, password, date of birth.

C2 - The system will send a link to the registered email for the account to be confirmed.

C3 - The system must cancel the registered account after a period of one hour of sending the account confirmation link, making a new user registration to be necessary.

C4 - The system will allow the following customer data to be modified by email: address, telephone, date of birth, password, after confirming the user's password.

C5 - The system will allow the client's account to be canceled by email on their profile page, confirming this action with their password.

BUYS

C6 - The system will allow the user to buy products that are published.

C7 - The system must store the purchase history of each client, as well as the articles consulted.

C8 - The system will have the following tools for browsing between products: a search bar, a category menu.

PAY

C9 - The system will implement a payment gateway to provide greater security at the time of the payment transaction.

C10 - The system will allow the customer to select the payment method when confirming the purchase.

C11 - The payment methods will be: online payments (international credit or debit card, PayPal account or similar), as well as collection networks.

C12 - The system will inform that it will not save the card data and that the user will be redirected to the financial provider's page.

C13 - In case the user selects payment in collection networks, the system will allow him to choose the location of the local collection network where the purchase can be paid, showing the following data: department and branch.

C14 - The system will cancel the customer's purchase 24 hours after it has been made without having made the payment in collection networks, in which case the seller of the product will receive an alert, and the incident will be recorded.

SHIPPING

C15 - The system will allow the customer to select the type of delivery, these are: pick up at the pickup center, or receive the purchase at the address specified in their profile.

C16 - The system will allow the customer to know the location of their order by entering the tracking number.

C17 - The system must have a functionality to generate user profile information to offer prizes to the best clients.

C18 - The system will have different alerts and notices based on specific events that will be detailed later.

SELLER

V1 - The system will allow the following seller data to be modified by email: password, photo, after confirming the user's password.

PRODUCTS

V2 - The system will allow the seller to register products by ID with the following data: name, description, photo, stock and unit price, condition (used or new) and origin (national or international).

V3 - The system will allow the seller to modify the product data by the ID: name, description, photo, stock, unit price, state, origin.

V4 - The system will allow the seller to cancel the products by the ID.

SALE

V5 - The system will allow the seller to make a sale, the following data being of importance: purchase number, detail, date, customer, total amount, delivery method, type of payment, purchase status.

V6 - The system will have different alerts and warnings based on specific events that will be detailed later.

V7 - The system must have a functionality to generate user profile information.

BUSINESS

E1 – The system will allow modifying the following company data by RUT, name, company address, pickup center addresses, telephone numbers, after confirming the user's password.

E2 - The system will allow the company to register vendors by ID with the following data: name, email, password.

E3 - The system will allow the company to delete the sellers by ID.

E4 - The system will allow the visualization of reports of the company's sales.

ADMINISTRATOR

A1 - The system will allow the administrator to register companies by RUT with the following data: password, name, email.

A2 - The system will allow the administrator to delete the companies by RUT.

A3 - The system will allow the administrator to block an account that is violating the terms and conditions of the company, giving notice to the person responsible for that account.

A4 - The system will allow the administrator to delete the publications of products that do not comply with the terms and conditions of the company, giving notice to the person responsible for that account.

A5 - The system will allow the administrator to view the reports mentioned before.

Limitations

- Software Limitations:

- ○ PHP 7.4.16
- ○ HTML
- ○ CSS
- ○ JavaScript
- ○ MySQL/MariaDB
- ○ CentOS 7
- ○ Code editor

- First Project and deadlines are tight.