

UNIVERSIDAD SAN CARLOS DE GUATEMALA

CENTRO UNIVERSITARIO DE OCCIDENTE

DIVISIÓN CIENCIAS DE LA INGENIERÍA

CARRERA DE INGENIERÍA CIENCIAS Y SISTEMAS



LABORATORIO ANÁLISIS Y DISEÑO DE SISTEMAS 1

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TEMA: “Análisis del dominio, Sistema de Inventario - Dashtory”

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Sistema de Inventario

Descripción General:

Se le solicita crear un sistema de inventarios para una empresa la cual se dedica a la venta de artículos varios, este sistema tendrá la capacidad de manejar usuarios con diferentes tipos de permisos en la aplicación, además de poder registrar clientes para asociarlos a las transacciones. El usuario administrador podrá tener acceso a todas las funciones del sistema, además de acceso a un dashboard para el análisis de datos, los usuarios de bodega podrán ingresar nuevos productos y proveedores y actualizar existencias, los usuarios vendedores tendrán el acceso a descontar productos del inventario por medio de ventas quedando el registro de estas transacciones en facturas dentro del sistema.

Función Stock Bajo:

El sistema también tiene la capacidad de notificar cuando los productos llegan a un punto de reorden. Después de la notificación la aplicación tendrá que buscar entre su lista de proveedores, el proveedor del producto en específico y pedir una orden de la cantidad especificada del producto a través de un correo electrónico. Este correo solo será mandado una vez hasta que se registren los productos manualmente.

La cantidad de productos que se tienen que pedir estará guardado en la DB al igual que el punto de reorden de cada producto en específico.

Dashboard:

El sistema podrá mostrar un registro de estadísticas, en la cual deberá de mostrar las estadísticas por cada producto donde se deberá de mostrar datos como el nombre, cantidad existente, cantidad mínima permitida (cantidad con la cual se realizará un nuevo pedido).

También debe contar con la información de las ventas del mes, una gráfica comparativa con el mes anterior, ganancias del mes, además de podrá visualizar por medio de una tabla el inventario general (Este inventario podrá ser descargado en formato PDF) el inventario podrá clasificarse por categorías (Alimentos, Mascotas, etc.)

Opcionalmente se puede filtrar por nombre del producto y todos los productos cuyo nombre contenga el texto del filtro se mostrarán en un listado, con las estadísticas anteriormente descritas.

Consideraciones:

La aplicación debe poder ser accedida desde distintos dispositivos por lo cual se solicita que la solución desarrollada sea una aplicación Web.

Análisis del Dominio

Ambiente operacional:

- Servidores en Sitio - Servidor Backend
- Servidor de Bases de Datos Relacional

Despliegue:

- Aplicación Web

Sistemas de hardware:

- Red Local
- Servidor
- Salida a Internet
- Soporte de Electricidad
- Equipos de Computo

Sistemas de software:

- **Sistema Operativo:** Windows 10 y Linux/Ubuntu 20.04
- **Navegador:** Google Chrome y Firefox
- **Bases de datos:** PostgreSQL 12.2
- **Servidor:** Python

- **Lenguaje de programación:** Python 3.9
- **Framework:** Django 2.2, Echarts y Allauth
- **IDE:** Visual Studio Code
- **Control de Versiones:** Git

Interfaces Hombre-Máquina:

- Cualquier dispositivo con acceso a un navegador.

Conexiones Externas:

- Servidor SMTP de Gmail
- GitHub

Funciones Operacionales:

Funcionales

- CRUD de Usuarios
- CRUD de Productos
- CRUD de Categorías
- CRUD de Proveedores
- Crear, buscar y modificar Clientes
- Manejo de permisos por roles
- Registro de Compras
- Registro de Ventas
- Dashboard Operacional
- Descarga de Reportes
- Mostrar el control del inventario de ventas por mes
- Filtrar por nombre de producto

- Mostrar reporte de reordenes
- Asignar Punto de reorden

No funcional

- Manejo de permisos
- Control y alerta del stock
- Encriptación de contraseñas

Glosario

Allaut: Conjunto integrado de aplicaciones Django que abordan la autenticación, el registro, la administración de cuentas y la autenticación de cuentas de terceros (social).

API: es un conjunto de subrutinas, funciones y procedimientos que ofrece cierta biblioteca para ser utilizada por otro software como una capa de abstracción.

Dashboard: es una herramienta de business intelligence que representa, de manera visual, los KPI's o métricas que afectan en el logro de los objetivos de tu estrategia de Marketing digital.

Django: es un framework de desarrollo web de código abierto, escrito en Python, que respeta el patrón de diseño conocido como modelo–vista–controlador.

Echarts: Apache ECharts es una biblioteca de gráficos y visualización poderosa y gratuita que ofrece una manera fácil de agregar gráficos intuitivos, interactivos y altamente personalizables a sus productos comerciales. Está escrito en JavaScript puro y basado en zrender, que es una biblioteca de lienzo liviana completamente nueva.

PostgreSQL: es un sistema de gestión de bases de datos relacional orientado a objetos y de código abierto, publicado bajo la licencia PostgreSQL, similar a la BSD o la MIT.

Python : Python es un lenguaje de programación interpretado cuya filosofía hace hincapié en la legibilidad de su código. Se trata de un lenguaje de programación multiparadigma, ya que soporta parcialmente la orientación a objetos, programación imperativa y, en menor medida, programación funcional.

Servidor SMTP de Gmail: Con el servidor SMTP de Gmail, se puede enviar correos electrónicos desde tu cuenta de Gmail utilizando otros clientes de correo electrónico, como

Outlook o Thunderbird. Pero lo más importante es que también se puede usar el servidor SMTP de Gmail para enviar correos electrónicos desde tu sitio de WordPress.

0, 1, 1, 2, 3, 5, 8

User Stories

User Story		
Title	Priority	Estimate
1	M	3
User Story		
As an administrator , i want to register employees so that they can log in to the system		
Acceptance Criteria		
Scenario Admin creates a new user entering the employee's information. Given that i am logged in And that i am on the register page When i enter a username that's not repeated, a valid password, a role and personal information And click submit Then the user is created		
Scenario Admin creates a new user with an existing username. Given that i am logged in And that i am on the register page When i enter a username that's repeated And click submit Then i will be indicated that the username is taken		
Scenario Admin creates a new user with invalid password Given that i am logged in And that i am on the register page When i enter an invalid password And click submit Then i will be indicated that the password is invalid		
Scenario Admin creates a new user without filling in fields Given that i am logged in And that i am on the register page When i enter an invalid field And click submit Then i will be indicated that the field is invalid		
Scenario Admin enters the form to create a new user and clicks cancel Given that i am logged in And that i am on the register page When i enter the employee's information		

And click cancel
Then i will be redirected to the home page

User Story

Title	Priority	Estimate
2	W	2

User Story

As an **administrator** i want to **delete users** so that **they can't log in to the system anymore**

Acceptance Criteria

Scenario Admin deletes an existing user selecting the employee's username.

Given that i am logged in

And that i am on the active employees list page

When i select an active user

And click delete

Then the user will be eliminated

Scenario Admin deletes an existing user but clicks cancel

Given that i am logged in

And that i am on the active employees list page

When i select an active user

And click cancel

Then i will be redirected to the active employees list page

User Story

Title	Priority	Estimate
3	C	5
User Story		
As an administrator i want to update employee's information so that the system can stay up to date with the user's data		
Acceptance Criteria		
Scenario Admin updates a user's information Given that i am logged in And that i am select a user from the active employees list And click update When i enter change the user's information And click submit Then i will be indicated that the user's information is updated		
Scenario Admin updates a user's information with a repeated username Given that i am logged in And that i am select a user from the active employees list And click update When i enter a repeated username And click submit Then i will be indicated that the username is taken		
Scenario Admin updates a user's information with invalid fields Given that i am logged in And that i am select a user from the active employees list And click update When i enter invalid fields And click submit Then i will be redirected to the the fields are invalid		
Scenario Admin updates a user's information but clicks cancel Given that i am logged in And that i am select a user from the active employees list And click update When i enter change the user's information And click cancel Then i will be redirected to the active employees list page		

User Story

Title	Priority	Estimate
4	M	5
User Story		
As an administrator i want to see sales charts of the month so that i can compare them with past months		
Acceptance Criteria		
Scenario Admin sees the sales chart of the month Given that i am logged in And that i am on the dashboard page When i requests to see the comparite sales bar chart of the month Then i will be able to see the comparite sales bar chart of the month		

User Story

Title	Priority	Estimate
5	C	8

User Story

As an **administrator** i want to **see sales charts of a time interval** so that **i can compare them with old records**

Acceptance Criteria

Scenario Admin sees the sales chart of a time interval

Given that i am logged in

And that i am on the sales chart dashboard page

When i enter a start date and an end date

And click submit

Then i will be able to see the comparite sales bar chart of the month

Scenario Admin sees the sales chart of a time interval with a start date

Given that i am logged in

And that i am on the sales chart dashboard page

When i enter a start date

And click submit

Then i will be able to see the sales bar chart from the start date to the present day

Scenario Admin sees the sales chart of a time interval with an end date

Given that i am logged in

And that i am on the sales chart dashboard page

When i enter an end date

And click submit

Then i will be able to see the sales bar chart from the first date of existing data to the end date

Scenario Admin sees the sales chart of a time interval without entering dates

Given that i am logged in

And that i am on the sales chart dashboard page

When i click submit

Then i will be able to see the sales bar chart from the first date of existing to the present day

User Story

Title	Priority	Estimate
6	S	3
User Story		
As an administrator , I want to see all the products with the number of existing stock and order points so that I can compare them .		
Acceptance Criteria		
Scenario Admin sees the list of all product Given that i am logged in And that i am on the home page When i enter the product list page Then i will be able to see the products and the number of existing stock		

User Story

Title	Priority	Estimate
7	C	8
User Story		
As an administrator , I want to export a sales chart of a determined time interval to PDF so that I can print and share it .		
Acceptance Criteria		
Scenario Admin exports sales chart to PDF Given that i am logged in And that i am on a sales chart page When i click the export PDF button Then i will be able to download the chart in PDF format		

User Story

Title	Priority	Estimate
8	M	3
User Story		
As an administrator , I want to see the total of transactions made in the day so that I can make a closing of sales.		
Acceptance Criteria		
Scenario Admin sees the transaction made in the present day Given that i am logged in And that i am on the home page When i enter the transaction of the day page Then i will be able to see the transactions made in the present day		

User Story

Title	Priority	Estimate
9	C	5
User Story		
As an administrator , I want to see the top best-selling products so that I can do an analysis of its stock.		
Acceptance Criteria		
Scenario Admin sees a chart of the best-selling products Given that i am logged in And that i am on the home page When i enter the product-category dashboard Then i will be able to see the chart of the top 5 best-selling products		

User Story

Title	Priority	Estimate
10	W	5
User Story		
As an administrator , I want to see the worst-selling product so that I can do an analysis of its stock.		
Acceptance Criteria		
Scenario Admin sees a chart of the worst-selling products Given that i am logged in And that i am on the home page When i enter the product-category dashboard Then i will be able to see the chart of the top 5 worst-selling products		

User Story

Title	Priority	Estimate
11	C	5
User Story		
As an administrator , I want to see the category of the best-selling products so that I can prioritize the sales of those products.		
Acceptance Criteria		
Scenario Admin sees a chart of the best-selling category Given that i am logged in And that i am on the home page When i enter the product-category dashboard Then i will be able to see the chart of the best-selling category		

User Story

Title	Priority	Estimate
12	W	5

User Story

As an **administrator**, I want to **see the category of the worst-selling products** so that **I can prioritize the sales of other categories**

Acceptance Criteria

Scenario Admin sees a chart of the worst-selling category

Given that i am logged in

And that i am on the home page

When i enter the product-category dashboard

Then i will be able to see the chart of the worst-selling category

User Story

Title	Priority	Estimate
13	M	3
User Story		
As an administrator I want to be able to modify the stock manually so that I can remove defective or expired products		
Acceptance Criteria		
Scenario Admin modifies the stock manually Given that i am logged in And that i am on the product list page And i select a product When i enter a valid number for the quantity of the product And click submit Then i will be notified that the stock has changed		
Scenario Admin modifies the stock manually with invalid numbers Given that i am logged in And that i am on the product list page And i select a product When i enter an invalid number for the quantity of the product And click submit Then i will be notified that the number is invalid		
Scenario Admin modifies the stock manually but clicks cancel Given that i am logged in And that i am on the product list page And i select a product When i enter a number for the quantity of the product And click cancel Then i will be redirected to the product list page		

User Story

Title	Priority	Estimate
14	S	3
User Story		
As an administrator I want to be able to modify a user's role so that the user can have different privileges and permissions in the system		
Acceptance Criteria		
Scenario Admin modifies the permissions of a user Given that i am logged in And that i am select a user from the active employees list When i modify the user's role And click submit Then i will be notified that the user's role has been updated		
Scenario Admin modifies the permissions of a user but clicks cancel Given that i am logged in And that i am select a user from the active employees list When i modify the user's role And click cancel Then i will be redirected to the active employees list		

User Story

Title	Priority	Estimate
15	M	3

User Story

As a **purchasing manager** I want to **be able to create a supplier** so that **I can get his information when registering a product.**

Acceptance Criteria

Scenario Purchasing manager creates a supplier

Given that i am logged in

And that i am on the add supplier form

When i enter a valid email and the supplier's information

And click submit

Then i will be notified that the supplier is now registered

Scenario Purchasing manager creates a supplier with an invalid email

Given that i am logged in

And that i am on the add supplier form

When i enter an invalid email

And click submit

Then i will be notified that the email is invalid

Scenario Purchasing manager creates a supplier without filling the fields

Given that i am logged in

And that i am on the add supplier form

When i don't fill in a required field

And click submit

Then i will be notified that the field is empty and needs to be filled in

Scenario Purchasing manager creates a supplier but clicks cancel

Given that i am logged in

And that i am on the add supplier form

When i enter an email and the supplier's information

And click cancel

Then i will be redirected to the home page

User Story

Title	Priority	Estimate
16	M	8
User Story		
As a purchasing manager I want to link a supplier to a product so that I can order the product form the supplier.		
Acceptance Criteria		
Scenario Purchasing manager links a product to a supplier from the add supplier form Given that i am logged in And that i am on the link product form from an add supplier form When i select the product to link And click link Then i will be notified that the product was link And return to the add supplier form		
Scenario Purchasing manager links a product to a supplier from the add supplier form but clicks cancel Given that i am logged in And that i am on the link product form from an add supplier form When i click cancel Then i will be redirected to the add supplier form		
Scenario Purchasing manager links a product to a supplier from the link product page Given that i am logged in And that i am on the link product form for a supplier When i select the product to link And click link Then i will be notified that the product was link		
Scenario Purchasing manager links a product to a supplier from the link product page but click cancel Given that i am logged in And that i am on the link product form for a supplier When i click cancel Then i will be redirected to the home page		

User Story

Title	Priority	Estimate
17	C	5
User Story		
As a purchasing manager I want to register a manual purchase so that the product can be sold.		
Acceptance Criteria		
Scenario purchasing manager registers a purchase Given that i am logged in And that i am on the manual purchasing page When i enter a valid number for the stock of the product And click submit Then I will be notified that the stock has changed.		
Scenario purchasing manager registers a purchase but clicks cancel Given that i am logged in And that i am on the manual purchasing page When i enter a valid number for the stock of the product And click cancel Then the stock doesn't change.		
Scenario purchasing manager registers a purchase with invalid numbers Given that i am logged in And that i am on the manual purchasing page When i enter an invalid number for the stock of the product And click submit Then the system will show an error and the stock will not change		

User Story

Title	Priority	Estimate
18	W	2

User Story

As a **purchasing manager** I want to **remove a supplier's information** so that **the system doesn't contact him anymore.**

Acceptance Criteria

Scenario purchasing manager wants to delete a supplier

Given that i am logged in

And that i am on the active supplier page

When I select an active supplier

And click delete

Then I will be notified that the provider has been removed

Scenario purchasing manager wants to delete a supplier but clicks cancel

Given that i am logged in

And that i am on the active supplier page

When I select an active supplier

And click cancel

Then the supplier will not be deleted

And i will be redirected to the active supplier page

User Story

Title	Priority	Estimate
19	M	3
User Story		
As a purchasing manager I want to register a new product so that it can be stocked.		
Acceptance Criteria		
Scenario Purchasing manager registers a new product Given that i am logged in And that i am on the add new product page When i enter valid information for the product And click submit Then i will be notified that the product was registered correctly		
Scenario Purchasing manager registers a new product with invalid information Given that i am logged in And that i am on the add new product page When i enter invalid information for the product And click submit Then i will be notified which fields are invalid		
Scenario Purchasing manager registers a new product without filling in fields Given that i am logged in And that i am on the add new product page When i leave empty required fields And click submit Then i will be notified that required fields are empty		
Scenario Purchasing manager registers a new product but clicks cancel Given that i am logged in And that i am on the add new product page When i enter information for the product And click cancel Then i will redirected to the home page		

User Story

Title	Priority	Estimate
20	S	5

User Story

As a **purchasing manager** I want to **update a product** so that **the product's information stays up to date.**

Acceptance Criteria

Scenario purchasing manager updates a product information

Given that i am logged in

And that i am on the product update page

When i modify the products information

And click submit

Then i will be notified that the product has been updated

Scenario purchasing manager updates a product information with invalid information

Given that i am logged in

And that i am on the product update page

When i enter invalid information for the product

And click submit

Then i will be notified which fields are invalid

Scenario purchasing manager updates a product information without filling in fields

Given that i am logged in

And that i am on the product update page

When i leave empty required fields

And click submit

Then i will be notified that required fields are empty

Scenario purchasing manager updates a product information but clicks cancel

Given that i am logged in

And that i am on the product update page

When i modify the products information

And click cancel

Then i will be redirected to the list of products page

User Story

Title	Priority	Estimate
21	C	5
User Story		
As a purchasing manager I want to place a manual order to a supplier so that he can send products in time.		
Acceptance Criteria		
Scenario Purchasing manager wants to place an order Given that i am logged in And that i am on the order page for a supplier When i pick products from a dropbox and their quantity correctly And click submit Then i will be notified that the order was generated correctly		
Scenario Purchasing manager wants to place an order with invalid quantity Given that i am logged in And that i am on the order page for a supplier When i pick products from a dropbox and their quantity incorrectly And click submit Then i will be notified of an error and the order will not be generated		
Scenario Purchasing manager wants to place an order but clicks cancel Given that i am logged in And that i am on the order page for a supplier When i pick products from a dropbox and their quantity And click cancel Then the order will not be generated And i will be redirected to the supplier's list		

User Story

Title	Priority	Estimate
22	M	2

User Story

As a **purchasing manager** I want to **set a product with an order point** so that **the system knows when to place an order.**

Acceptance Criteria

Scenario Purchasing manager sets an order point to a product

Given that i am logged in

And that i am on the information page of a product

When i enter the order point correctly

And click submit

Then i will be notified that the order point was place correctly

Scenario Purchasing manager sets an order point to a product but clicks cancel

Given that i am logged in

And that i am on the information page of a product

When i enter an invalid order point

And click submit

ThenI the order will not be generated

And i will be indicated that the order point is invalid

Scenario Purchasing manager sets an order point to a product but clicks cancel

Given that i am logged in

And that i am on the information page of a product

When i enter the order point

And click cancel

ThenI the order will not be generated

And i will be redirected to the list of products

User Story

Title	Priority	Estimate
23	S	3
User Story		
As a purchasing manager I want to update an order point of a product so that the system knows when to place an order.		
Acceptance Criteria		
Scenario Purchasing manager updates an order point of a product Given that i am logged in And that i am on the information page of a product When i enter the order point correctly And click submit Then i will be notified that the order point was updated correctly		
Scenario Purchasing manager updates an order point of a product but clicks cancel Given that i am logged in And that i am on the information page of a product When click cancel And i will be redirected to the list of products		
Scenario Purchasing manager updates an order point of a product without filling in fields Given that i am logged in And that i am on the information page of a product When i leave the order point field empty And click submit And i will be redirected to the list of products		

User Story

Title	Priority	Estimate
24	S	5
User Story		
As a purchasing manager I want to see a list of orders (in process, processed and canceled) and there products so that i can view old and new orders		
Acceptance Criteria		
Scenario Purchasing manager wants to see the status of the orders Given that i am logged in And that i am on the home page When i enter the order list page Then i view the status of the orders		

User Story

Title	Priority	Estimate
25	M	2
User Story		
As a purchasing manager I want to indicate the quantity for automatic orders of a certain product so that the system can order the right amount in next orders		
Acceptance Criteria		
Scenario Purchasing manager sets the quantity of an automatic order for a product Given that i am logged in And that i am on the information page of a product When i enter the quantity correctly And click submit Then i will be notified that the quantity number was set correctly		
Scenario Purchasing manager sets the quantity of an automatic order for a product but clicks cancel Given that i am logged in And that i am on the information page of a product When click cancel Then i will be redirected to the list of product page		
Scenario Purchasing manager sets the quantity of an automatic order for a product without filling in fields Given that i am logged in And that i am on the information page of a product When i leave the quantity field empty And click submit Then i will be redirected to the list of product page		

User Story

Title	Priority	Estimate
26	S	3
User Story		
As a purchasing manager I want to update the quantity for automatic orders of a certain product so that the system can order the right amount in next orders.		
Acceptance Criteria		
Scenario Purchasing manager updates an automatic order point Given that i am logged in And that i am on the product list page When i enter the order point correctly And click submit Then i will be notified that the order point was successfully updated		
Scenario Purchasing manager updates an automatic order point with an invalid order point Given that i am logged in And that i am on the product list page When i enter the order point incorrectly And click submit Then i will be redirected to the list of products		
Scenario Purchasing manager updates an automatic order point but clicks cancel Given that i am logged in And that i am on the product list page When i enter the order point And click cancel Then i will be redirected to the list of products		

User Story

Title	Priority	Estimate
27	M	3
User Story		
As a purchasing manager I want to be able to create product categories so that I can filter the products in a more comfortable way.		
Acceptance Criteria		
Scenario Purchasing manager creates a new category Given that i am logged in And that i am on the add category page When i enter the information correctly And click submit Then i will be notified that the category was created correctly		
Scenario Purchasing manager creates a new category but clicks cancel Given that i am logged in And that i am on the add category page When click cancel Then i will be redirected to the home page		
Scenario Purchasing manager creates a new category that already exists Given that i am logged in And that i am on the add category page When i enter the information of an existing category And click submit Then i will be notified that the category already exists		
Scenario Purchasing manager creates a new category without filling in fields Given that i am logged in And that i am on the add category page When i leave required fields empty And click submit Then i will be notified that the some required fields are empty		
Scenario Purchasing manager creates a new category with invalid information Given that i am logged in And that i am on the add category page When i enter invalid information And click submit Then i will be notified that some information is invalid		

User Story

Title	Priority	Estimate
28	M	8
User Story		
As a cashier , i want to register a sale so that the stock stays up to date		
Acceptance Criteria		
Scenario Cashier registers a sale Given that i am logged in And that i am on the sales page When i enter products for sale And click sell Then i will be notified that the sale was successful And a receipt will be generated		
Scenario Cashier registers a sale removing unwanted products Given that i am logged in And that i am on the sales page When i enter products for sale And enter a product incorrectly And click delete product Then i remove the product from the current transaction		

User Story

Title	Priority	Estimate
29	S	3
User Story		
As a cashier I want to see the total of my transactions so that I know the total amount for the day.		
Acceptance Criteria		
Scenario Cashier sees the total of transactions of a day Given that i am logged in And that i am on the transaction page When i select a date And click search Then i will be able to see my transactions that date		
Scenario Cashier sees the total of transactions of the present day Given that i am logged in And that i am on the home page When enter the transaction page Then i will be able to see my transactions of the current day		
Scenario Cashier sees the total of transactions of the present day without entering a date Given that i am logged in And that i am on the transaction page When i don't select a date And click search Then i will be able to see my transactions of the current day		

User Story

Title	Priority	Estimate
30	S	5
User Story		
As a cashier , I want to register a new client so that I can use his information in a transaction		
Acceptance Criteria		
Scenario Cashier registers a new client Given that i am logged in And that i am on the new client form When i enter the client's information correctly And click register Then i will be notified that the client was registered correctly		
Scenario Cashier registers a new client but clicks cancel Given that i am logged in And that i am on the new client form When click cancel Then i will be redirected to the home page		
Scenario Cashier registers a client that is already registered Given that i am logged in And that i am on the new client form When i enter an already registered NIT And click register Then i will be notified that the client has already been registered		
Scenario Cashier registers a new client without filling in required fields Given that i am logged in And that i am on the new client form When i leave empty required fields And click register Then i will be notified that the required field is empty		
Scenario Cashier registers a new client with invalid information Given that i am logged in And that i am on the new client form When i enter invalid information And click register Then i will be notified that the information is invalid		

User Story

Title	Priority	Estimate
31	S	5
User Story		
As a cashier , I want to search for a client's information so that I can use his information in a transaction.		
Acceptance Criteria		
Scenario Cashier searches a customer's data Given that i am logged in And that i am on the sales page When i search for a customer by their NIT And i select it correctly And click submit Then the customer information will be associated with the current transaction		
Scenario Cashier searches a new customer's data then register him Given that i am logged in And that i am on the sales page When i search for a customer by their NIT And not registered Then i create the new client And the customer information will be associated with the current transaction		
Scenario Cashier searches a customer's data but clicks cancel Given that i am logged in And that i am on the sales page When i search for a customer by their NIT And i select it correctly And click cancel Then i can enter another NIT to associate with another client		

User Story

Title	Priority	Estimate
215	M	3
User Story		
As an administrator, purchasing manager or cashier , I want to be able to login so that I can access the system .		
Acceptance Criteria		
Scenario A user logs in to the system Given that i am on the login page When i enter a username and password correctly And click login Then i will be redirected to the home page		
Scenario A user logs in to the system and he did not complete the fields Given that i am on the login page When i don't enter a username Or i don't enter a password And click login Then i will be indicated that the required field is empty		
Scenario A user logs in to the system with wrong information Given that i am on the login page When i enter an invalid username or password And click login Then i will be indicated that the user information is incorrect		
Scenario A user logs in to the system but he doesn't have an account Given that i am on the login page When i am not registered And click sign up Then i will be indicated to contact an administrator		

User Story

Title	Priority	Estimate
33	M	1
User Story		
As an administrator, purchasing manager or cashier , I want to be able to logout so that I can close my session and leave the system.		
Acceptance Criteria		
Scenario User logouts of the system Given that i am logged in And that i am logged in When i click the logout button Then i will be redirected to the login page		

User Story

Title	Priority	Estimate
34	C	5
User Story		
As an administrator, purchasing manager or cashier , I want to be able to reset my password when I forget it so that I can access the system again.		
Acceptance Criteria		
Scenario User wants to access his account again Given that i am logged in And that i am the login page When i click the button to recover password Then i receive an email with the recovery information for account		