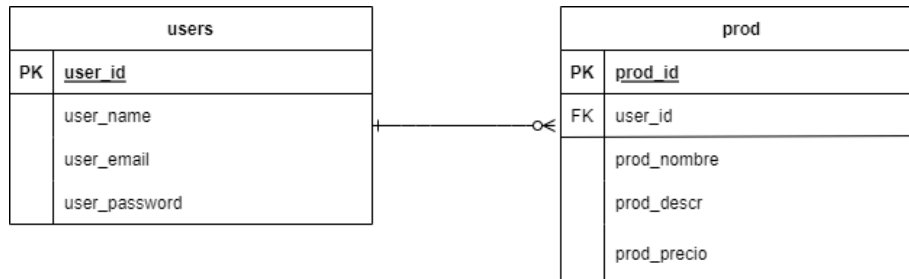


Database

E-R Diagram



Code

```
create database pruebaintegradora;
CREATE EXTENSION IF NOT EXISTS "uuid-oss";
create table users (
    user_id uuid default uuid_generate_v4(),
    user_name varchar(255) not null,
    user_email varchar(255) not null unique,
    user_password varchar(255) not null,
    primary key(user_id)
);

create table prod (
    prod_id serial,
    user_id UUID,
    nombre varchar(255),
    descr varchar (255),
    precio varchar (255),
    primary key (prod_id),
    foreign key (user_id) references users(user_id)
);
```

Database created and showing the tables

```
C:\WINDOWS\system32\cmd.exe - psql -U postgres
pruebaintegradora=# \dt
Listado de relaciones
Esquema | Nombre | Tipo | Dueño
-----+-----+-----+-----
public  | prod   | tabla | postgres
public  | users  | tabla | postgres
(2 filas)

pruebaintegradora=#
```

Showing users relations created in the code

```
C:\WINDOWS\system32\cmd.exe - psql -U postgres

Tabla %public.users%
+-----+-----+-----+-----+-----+
| Columna | Tipo | Ordenamiento | Nulable | Por omisi% |
+-----+-----+-----+-----+-----+
| user_id | uuid | | not null | uuid_generate_v4() |
| user_name | character varying(255) | | not null | |
| user_email | character varying(255) | | not null | |
| user_password | character varying(255) | | not null | |
+-----+-----+-----+-----+-----+
=ndices:
"users_pkey" PRIMARY KEY, btree (user_id)
"users_user_email_key" UNIQUE CONSTRAINT, btree (user_email)
Referenciada por:
TABLE "prod" CONSTRAINT "prod_user_id_fkey" FOREIGN KEY (user_id) REFERENCES users(user_id)

pruebaintegradora=#
```

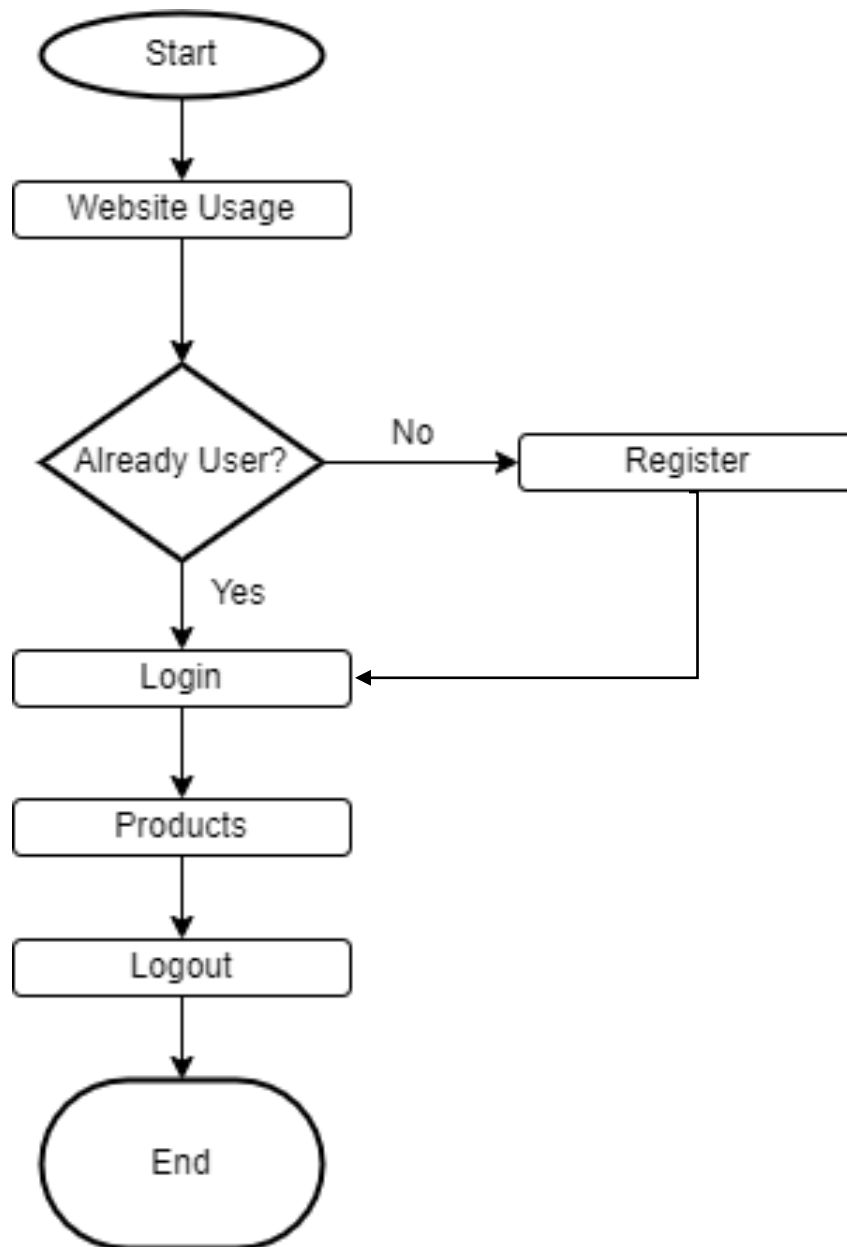
Showing products relations created in the code

```
C:\WINDOWS\system32\cmd.exe - psql -U postgres

Tabla %public.prod%
+-----+-----+-----+-----+-----+
| Columna | Tipo | Ordenamiento | Nulable | Por omisi% |
+-----+-----+-----+-----+-----+
| prod_id | integer | | not null | nextval('prod_prod_id_seq'::regclass) |
| user_id | uuid | | | |
| nombre | character varying(255) | | | |
| descr | character varying(255) | | | |
| precio | character varying(255) | | | |
+-----+-----+-----+-----+-----+
=ndices:
"prod_pkey" PRIMARY KEY, btree (prod_id)
Restricciones de llave for%nea:
"prod_user_id_fkey" FOREIGN KEY (user_id) REFERENCES users(user_id)
```

Creation of the database to store and show the information that the users will insert into this, making sure there is only one email to ensure only new registers can be added into the database, creating the relation between the users and prod to make sure only the owner of every product inserted into the database can access it, to add some privacy.

General Diagram

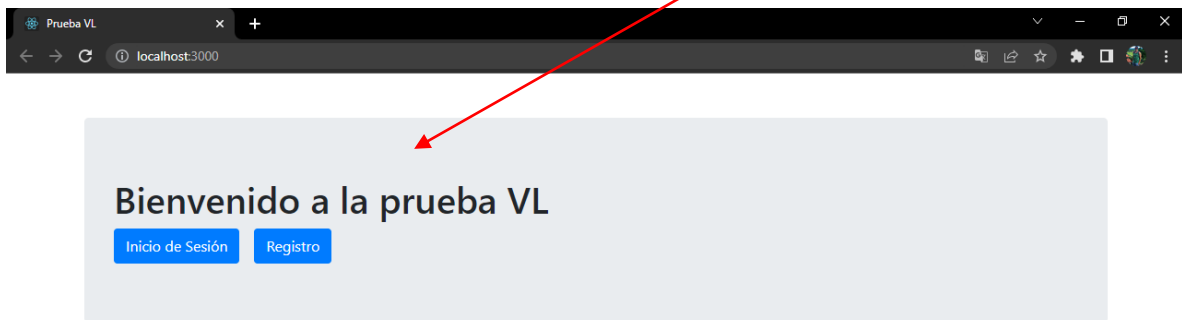


General functionality explanation.

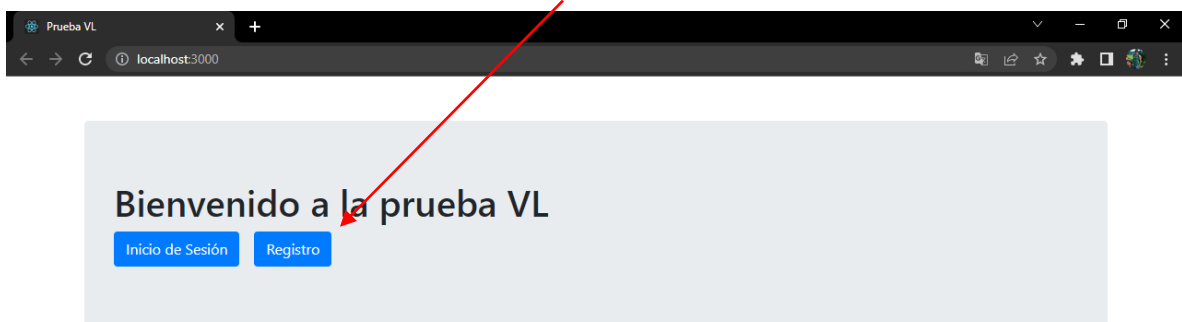
This is where everything happens, every module that will be explained after this is going to be merged into a single system.

In general, what this is doing:

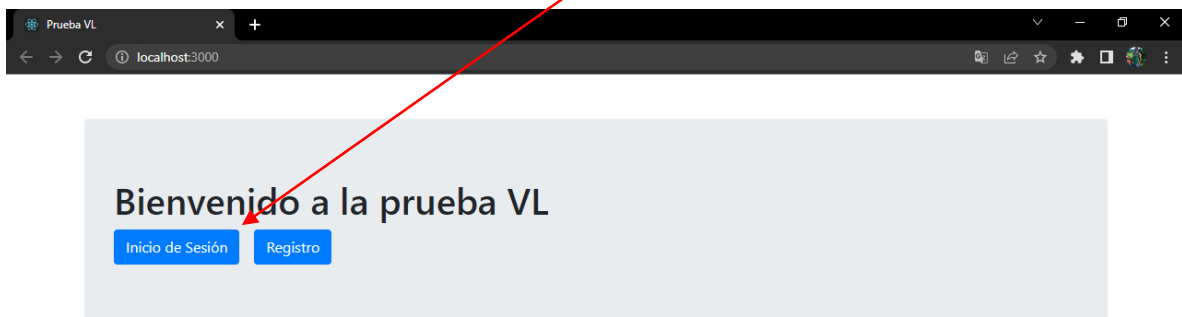
Displaying a Welcome page.



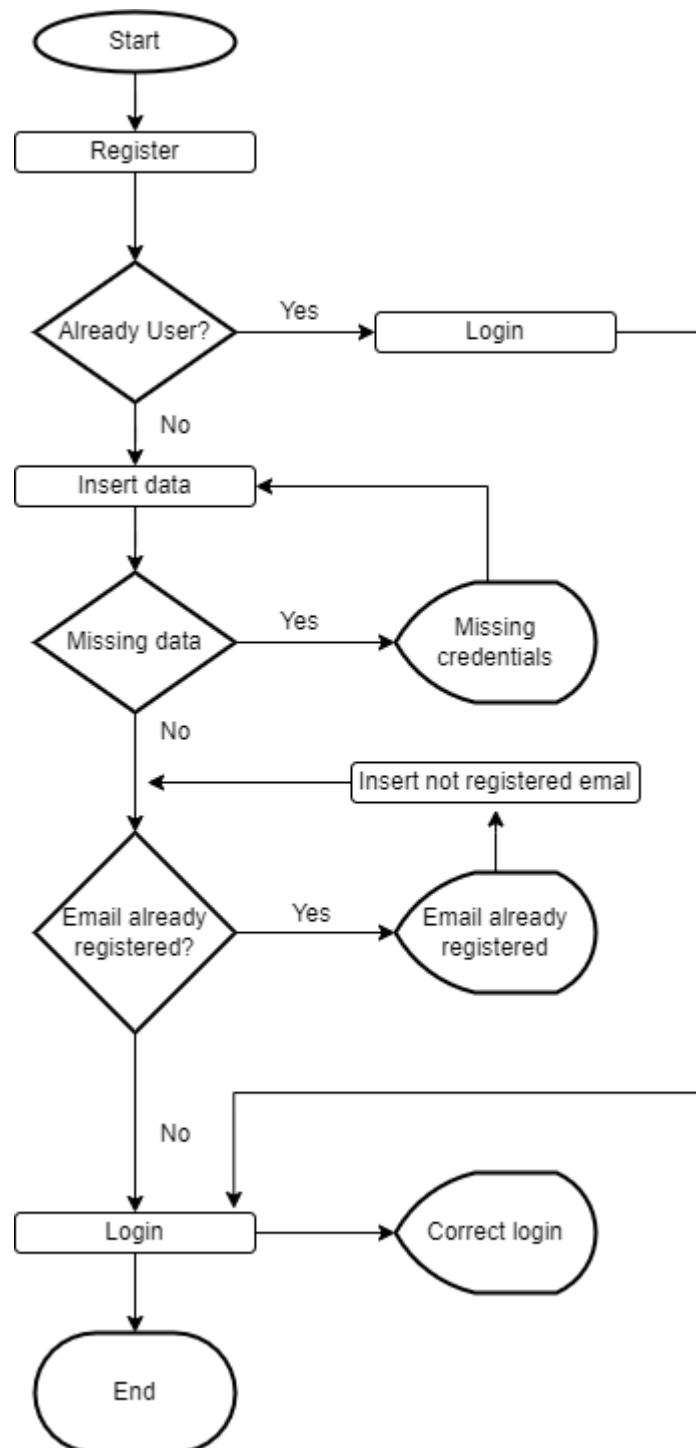
Let a new user register its information.



Access with a token by giving the credentials registered before, in this case, letting the user be inside the system for 10 minutes.



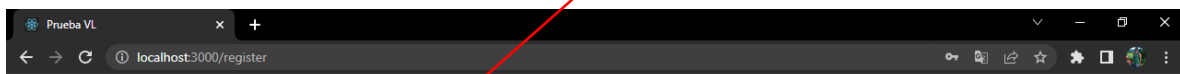
Register Diagram



Register functionality explanation.

Where the user can register into the database in order to access the “Dashboard” and CRUD the products, what this is doing:

Let the user register into the system, by requesting Name, Email and a Password.



Registro

Form fields for registration:

- Correo electrónico
- Contraseña
- Nombre

Registrar

¿Ya eres usuario? [Inicia Sesión](#)

Making sure there is no empty values (With one missing, the alert will show), if so, letting the user know that some fields are not filled.



Registro

Form fields for registration:

- Correo electrónico
- Contraseña
- Nombre

Registrar

¿Ya eres usuario? [Inicia Sesión](#)

Checking if the email is already in the database or in the “correct” format, letting the user know so this field can be entered again.



Registro

Form fields for registration:

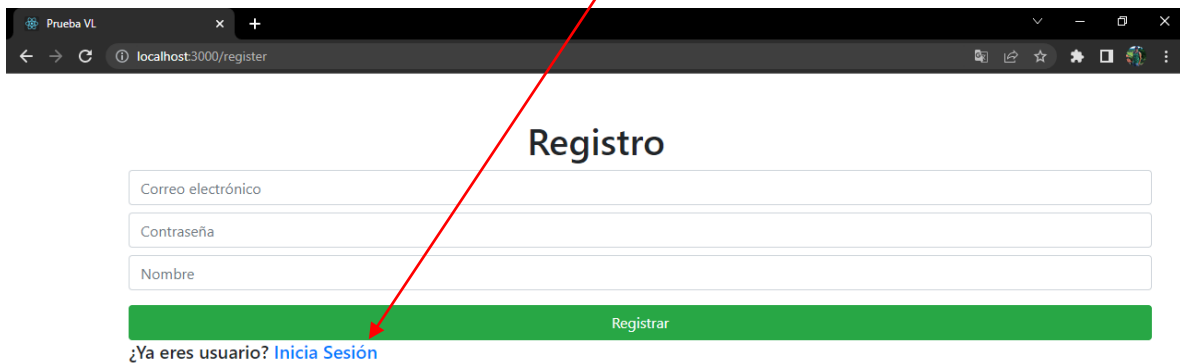
- carlosdlr7@hotmail.com
- ...
- sfadfsdafdsfasd

Registrar

¿Ya eres usuario? [Inicia Sesión](#)

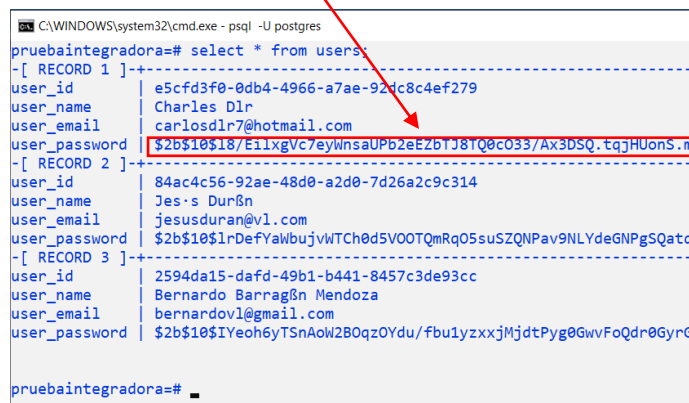
El formato del correo electrónico no es el correcto

Letting the user, the opportunity to Login if already a user.



The screenshot shows a web browser window with the address bar displaying 'localhost:3000/register'. The page title is 'Prueba VL'. The main heading is 'Registro'. Below the heading are three input fields: 'Correo electrónico', 'Contraseña', and 'Nombre'. A green button labeled 'Registrar' is positioned below the input fields. A red arrow points from the text 'Letting the user, the opportunity to Login if already a user.' to the 'Registrar' button. Below the button, there is a link that says '¿Ya eres usuario? [Inicia Sesión](#)'.

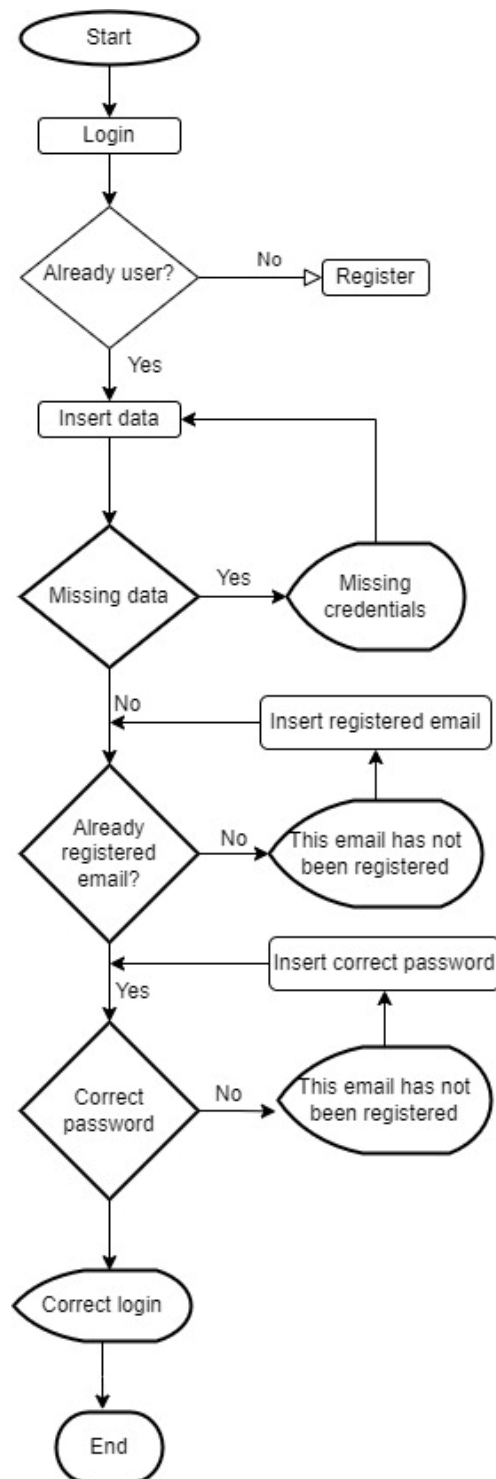
Encrypting the password so not even the DBA can have that information.



The screenshot shows a terminal window with a command prompt. The command executed is 'psql -U postgres'. The output shows the result of a SQL query: 'select * from users'. The results are displayed in a table format with three records. A red box highlights the 'user_password' column for the first record, showing a hashed password. A red arrow points from the text 'Encrypting the password so not even the DBA can have that information.' to the highlighted password.

user_id	user_name	user_email	user_password
e5cfd3f0-0db4-4966-a7ae-92dc8c4ef279	Charles Dlr	carlosdlr7@hotmail.com	\$2b\$10\$18/E1lxgVc7eyWnsaUPb2eEZbTJ8TQ0c033/Ax3DSQ.tqjHUonS.m
84ac4c56-92ae-48d0-a2d0-7d26a2c9c314	Jes·s Dur8n	jesusduran@v1.com	\$2b\$10\$1rDefYawbujvWTCh0d5VOOTQmRq05suSZQNPav9NLYdeGNPgsQatq
2594da15-dafd-49b1-b441-8457c3de93cc	Bernardo Barrag8n Mendoza	bernardov1@gmail.com	\$2b\$10\$IYeoh6yTSnAoW2B0qzOYdu/fbu1yzxxjMjdtPyg0GwvFoQdr0GyrG

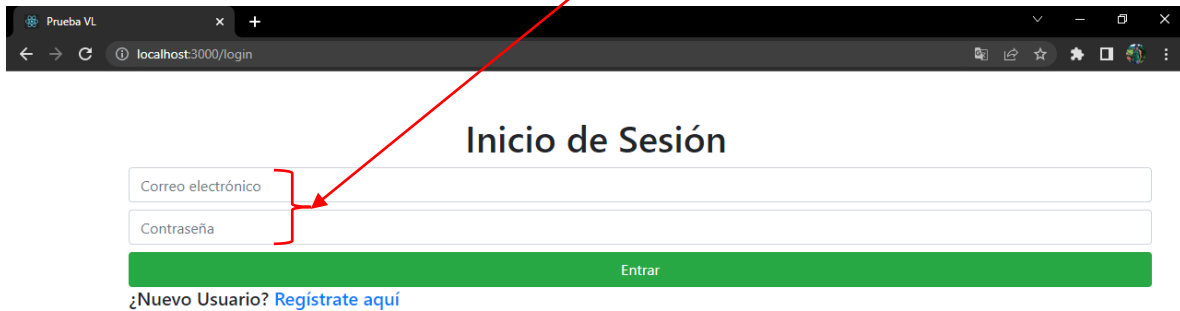
Login Diagram



Login functionality explanation.

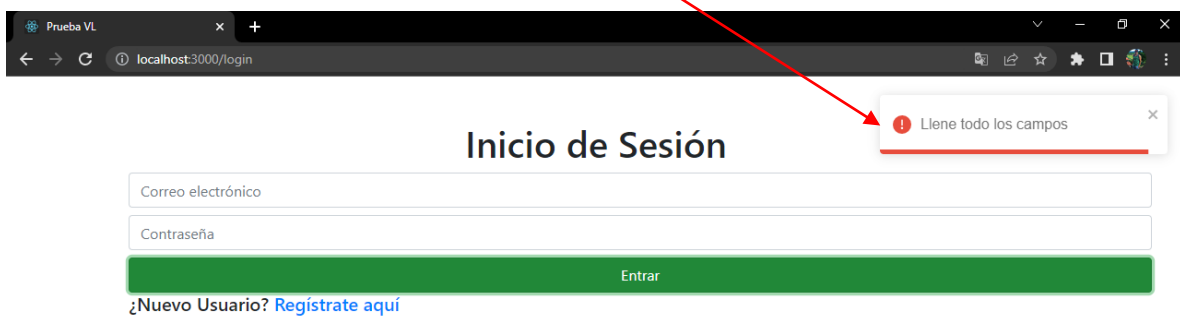
Where the user actually uses the information given in the register part in order to access the “Dashboard” and CRUD the products, what this is doing:

Let the user put its information into the fields to access the system.



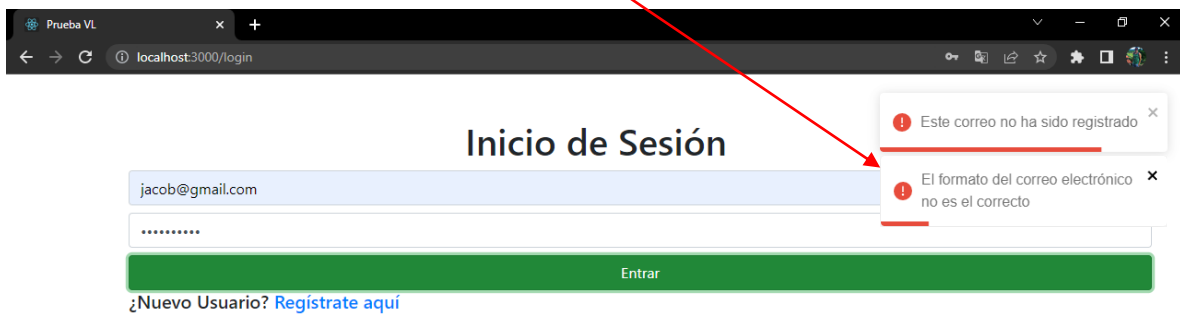
The screenshot shows a web browser window with the address bar displaying 'localhost:3000/login'. The page title is 'Prueba VL'. The main heading is 'Inicio de Sesión'. Below the heading are two input fields: 'Correo electrónico' and 'Contraseña'. A red bracket highlights both fields, and a red arrow points from the text 'Let the user put its information into the fields to access the system.' to the 'Correo electrónico' field. Below the fields is a green button labeled 'Entrar'. At the bottom, there is a link: '¿Nuevo Usuario? [Regístrate aquí](#)'.

Making sure there is no empty values, if so, letting the user know that some fields are missing.



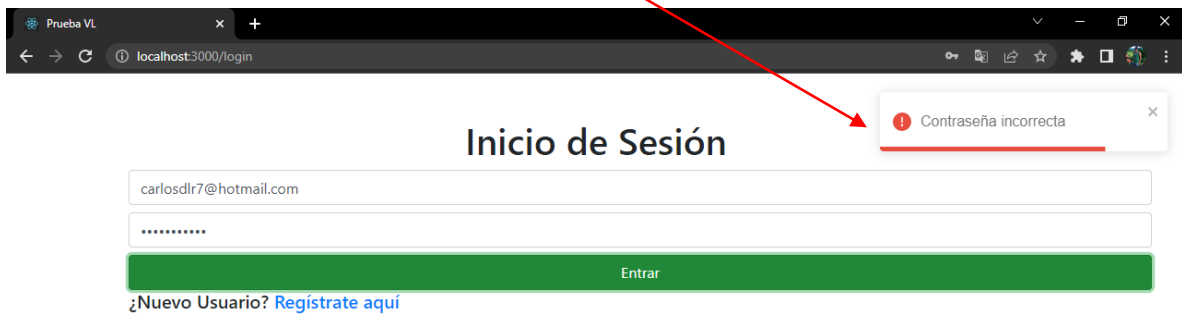
The screenshot shows the same login page as before, but with a red validation error message box on the right side that says 'Llene todo los campos'. A red arrow points from the text 'Making sure there is no empty values, if so, letting the user know that some fields are missing.' to the error message. The rest of the page elements are the same.

Checking if the email is already in the database, if not, letting the user know in order to Register this email, also, making sure the email format is the correct stablished previously.



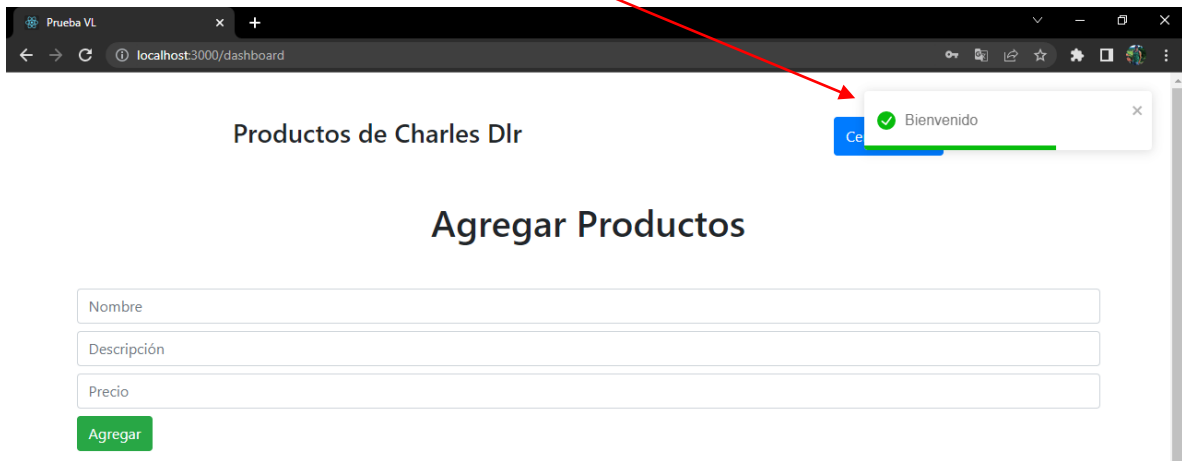
The screenshot shows the login page with two validation error messages on the right side. The first message says 'Este correo no ha sido registrado' and the second message says 'El formato del correo electrónico no es el correcto'. A red arrow points from the text 'Checking if the email is already in the database, if not, letting the user know in order to Register this email, also, making sure the email format is the correct stablished previously.' to the first error message. The email field now contains 'jacob@gmail.com' and the password field contains '.....'. The rest of the page elements are the same.

Checking if the password is correct, if not, letting the user know this is not correct so the user can enter it again.



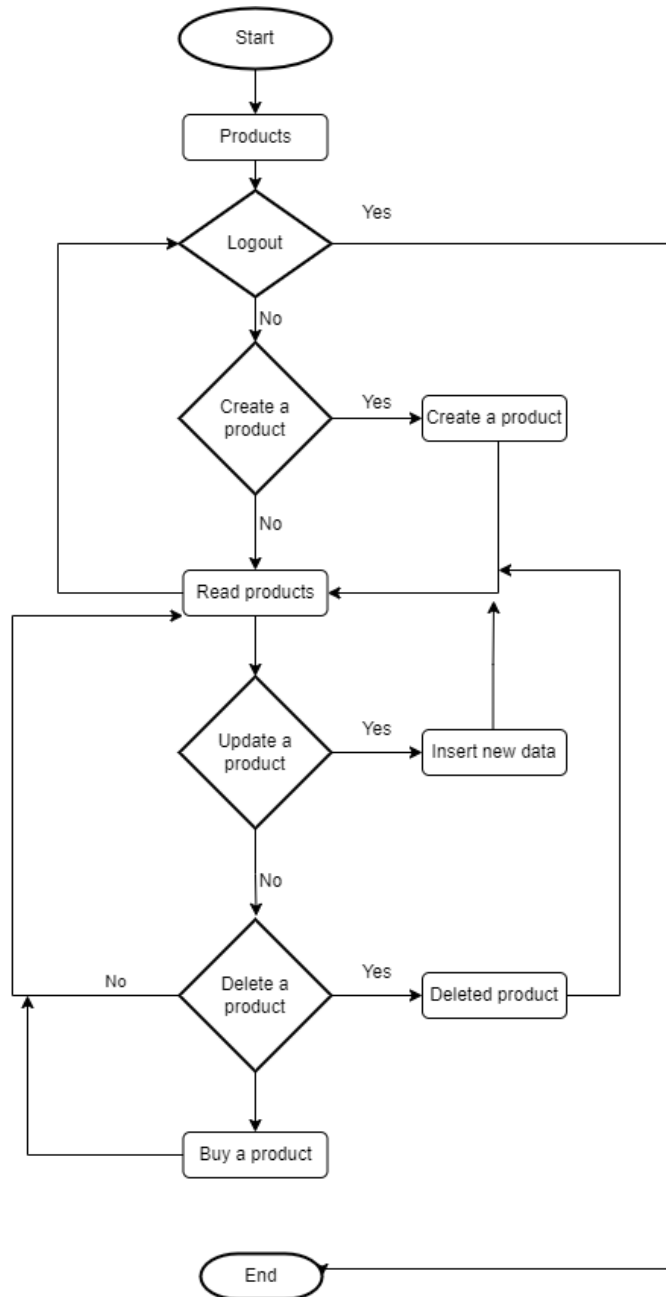
The screenshot shows a web browser window with the address bar at `localhost:3000/login`. The page title is "Prueba VL". The main heading is "Inicio de Sesión". Below it, there are two input fields: the first contains the email "carlosdlr7@hotmail.com" and the second contains a masked password "*****". A green button labeled "Entrar" is positioned below the password field. At the bottom left, there is a link that says "¿Nuevo Usuario? [Regístrate aquí](#)". A red arrow points from the text above to a white error notification box in the top right corner. The notification box has a red exclamation mark icon and the text "Contraseña incorrecta".

Granting the user with a JWT for 10 minutes and letting the user know that the login was successful.



The screenshot shows a web browser window with the address bar at `localhost:3000/dashboard`. The page title is "Prueba VL". The main heading is "Agregar Productos". Above this heading, the text "Productos de Charles Dlr" is displayed. Below the heading, there are three input fields labeled "Nombre", "Descripción", and "Precio". A green button labeled "Agregar" is at the bottom left. A red arrow points from the text above to a white success notification box in the top right corner. The notification box has a green checkmark icon and the text "Bienvenido".

Products Diagram

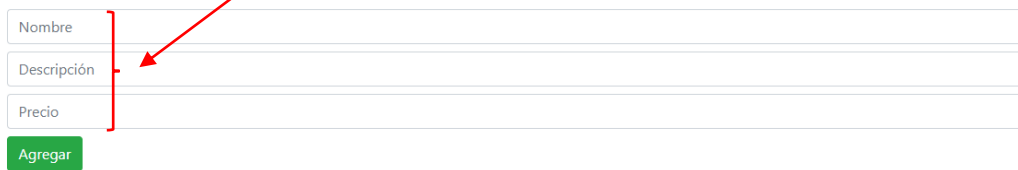


Products functionality explanation.

Where the user can Create, Read, Update and Delete products, only showing the products that re related to that specific user (Using the where clause in the server side to request only products with that specific user_id), what this is doing:

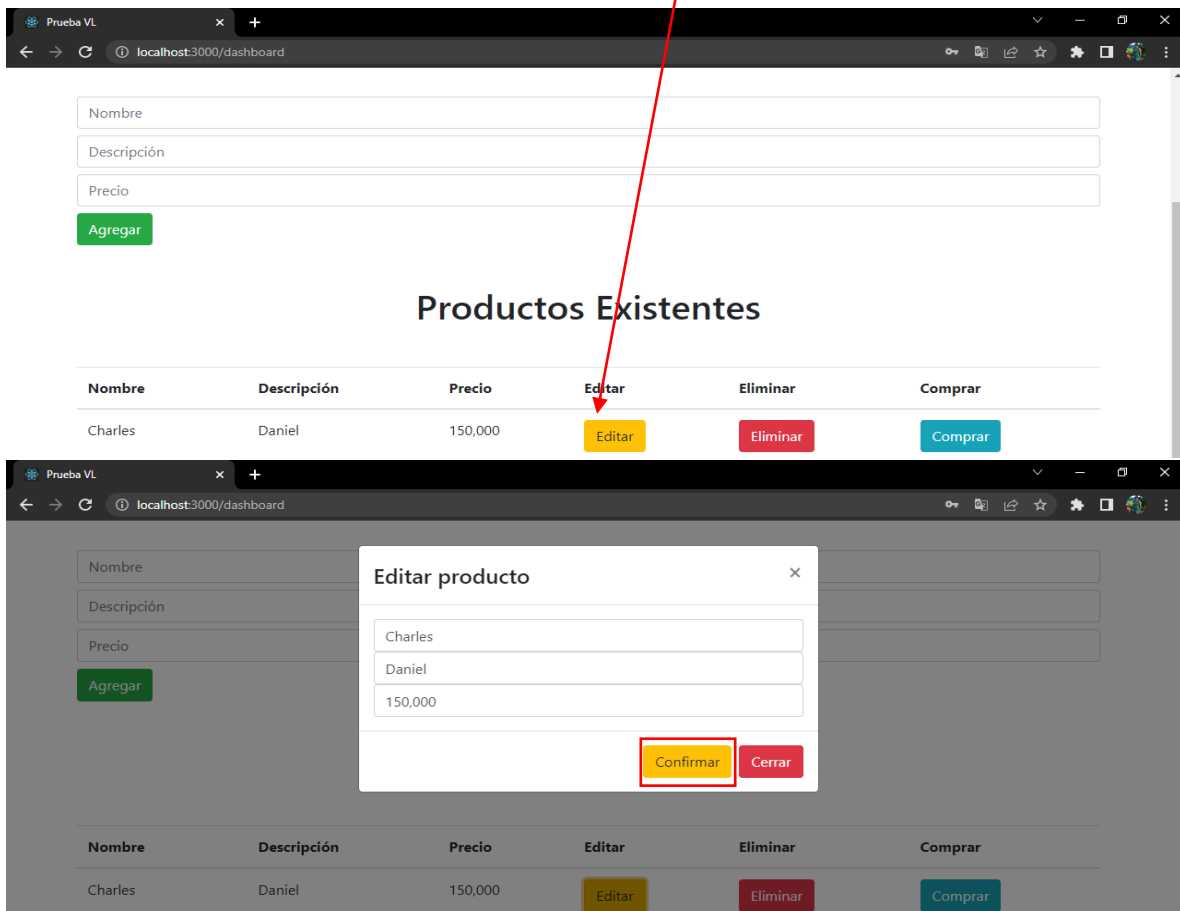
Let the user create a new product by asking for Name, Description and Price, not ensuring if there are empty values in order to let the user put that data after if needed.

Agregar Productos



A screenshot of a web form titled "Agregar Productos". It contains three input fields labeled "Nombre", "Descripción", and "Precio". A red bracket groups these fields, and a red arrow points to the "Descripción" field. Below the fields is a green button labeled "Agregar".

Let the user update a specific product if needed.



A screenshot of a web application showing a table of existing products. The table has columns: Nombre, Descripción, Precio, Editar, Eliminar, and Comprar. The first row shows a product named "Charles" with description "Daniel" and price "150,000". A red arrow points to the "Editar" button in the "Editar" column. Below the table, there is a modal window titled "Editar producto" with input fields for "Nombre", "Descripción", and "Precio", and buttons "Confirmar" and "Cerrar".

Nombre	Descripción	Precio	Editar	Eliminar	Comprar
Charles	Daniel	150,000	Editar	Eliminar	Comprar

Delete a product if needed.

The screenshot shows a web application interface. At the top, there is a form with three input fields labeled 'Nombre', 'Descripción', and 'Precio', followed by a green 'Agregar' button. Below the form is a section titled 'Productos Existentes'. Under this title is a table with the following data:

Nombre	Descripción	Precio	Editar	Eliminar	Comprar
Charles	Daniel	150,000	Editar	Eliminar	Comprar

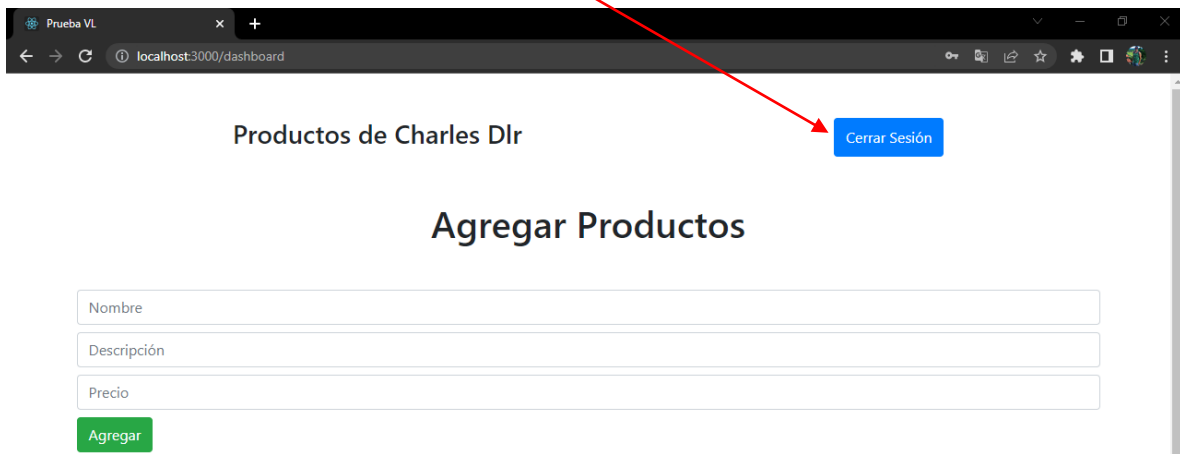
A red arrow points from the text 'Delete a product if needed.' to the 'Eliminar' button in the table.

The buying part is not working properly, but it is showing a funny message, it could be added after.

This screenshot is identical to the one above, showing the same form and table. A red arrow points from the text 'The buying part is not working properly, but it is showing a funny message, it could be added after.' to the 'Comprar' button in the table.

This screenshot shows the same web application interface, but with a modal dialog box open in the center. The dialog box has a title 'UPS' and a message 'OJALÁ ALGUIEN HUBIERA PROGRAMADO ESTO'. There is a 'Close' button at the bottom right of the dialog. The background of the dashboard is dimmed.

Letting the user Logout in order to not let people do things in the system with the token granted in the Login, this is also why it has an expiration of 10 minutes, letting the user know it was done correctly.



Letting the user Logout in order to not let people do things in the system with the token granted in the Login, this is also why it has an expiration of 10 minutes, letting the user know it was done correctly.

