BuscaPeli Application

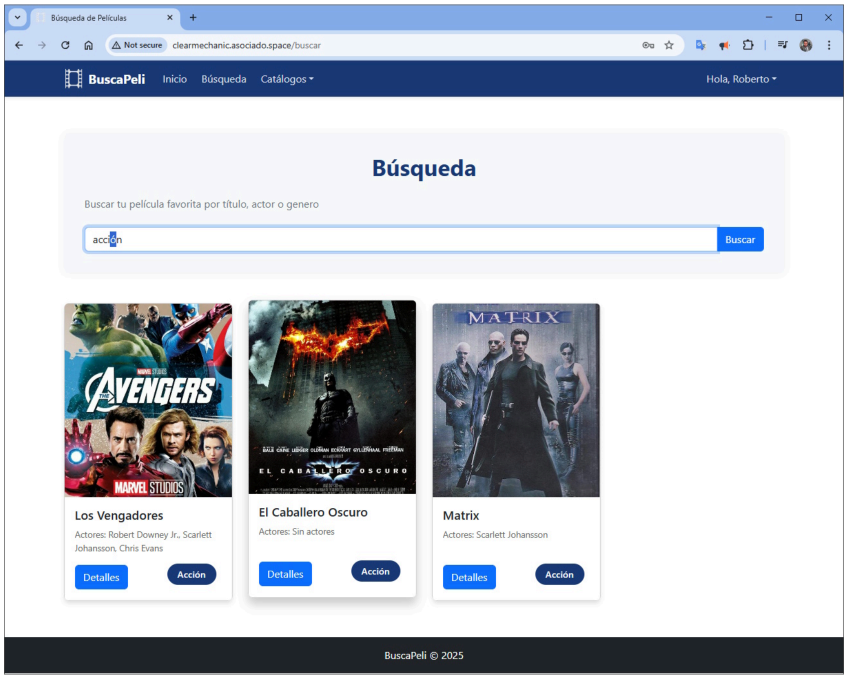
Description

This web application allows users to search for and display information about movies. Users can search by title, genre, or actor name, and view complete details of movies including their cast. The application has an authentication system for user and role management.

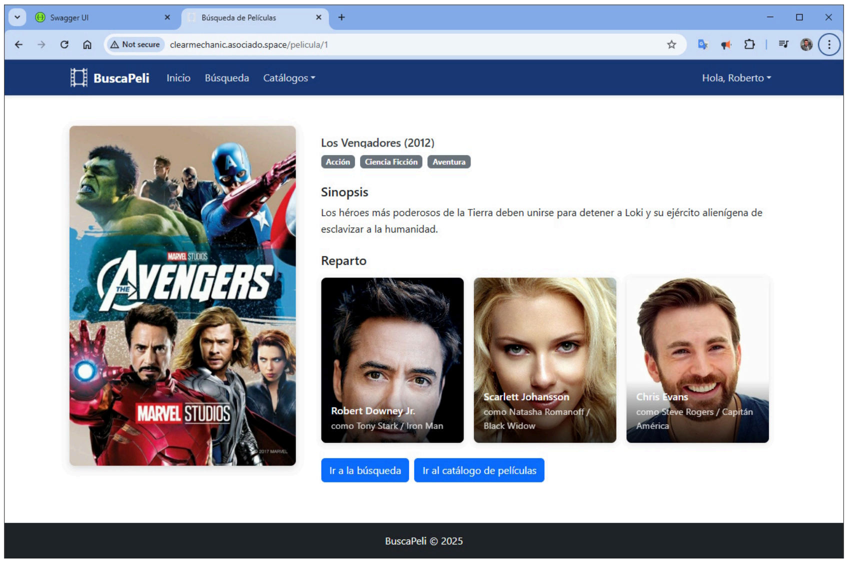
Features

You can navigate into this solutions visit:
URL: http://clearmechanic.asociado.space/

- Search for movies by title, genre, or actor name



- Movie details page: Shows complete information about a selected movie



Los Vengadores (2012)

Acción Ciencia Ficción Aventura

Sinopsis

Los héroes más poderosos de la Tierra deben unirse para detener a Loki y su ejército alienígena de esclavizar a la humanidad.

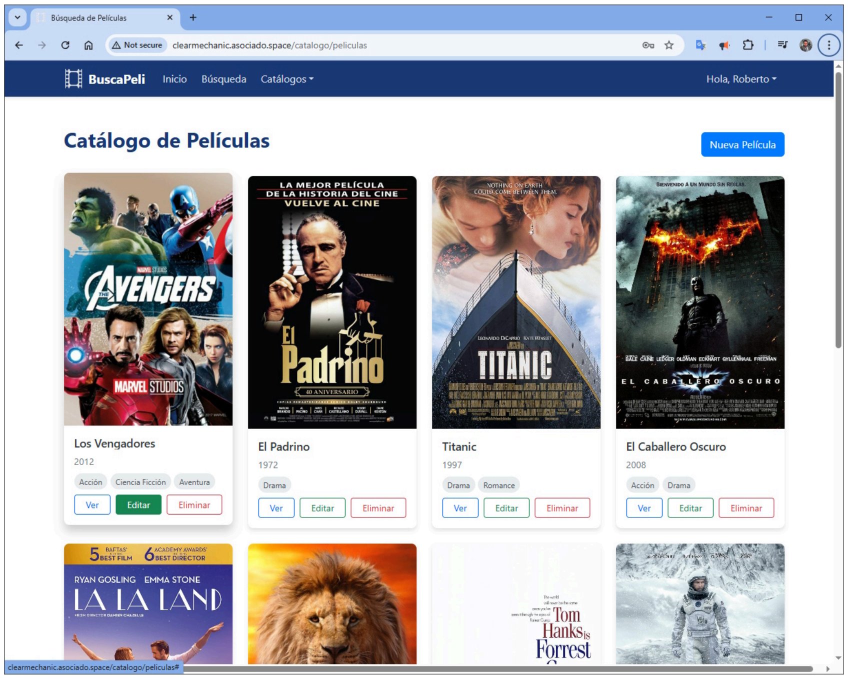
Reparto

Robert Downey Jr. como Tony Stark / Iron Man

Scarlett Johansson como Natasha Romanoff / Black Widow

Chris Evans como Steve Rogers / Capitán América

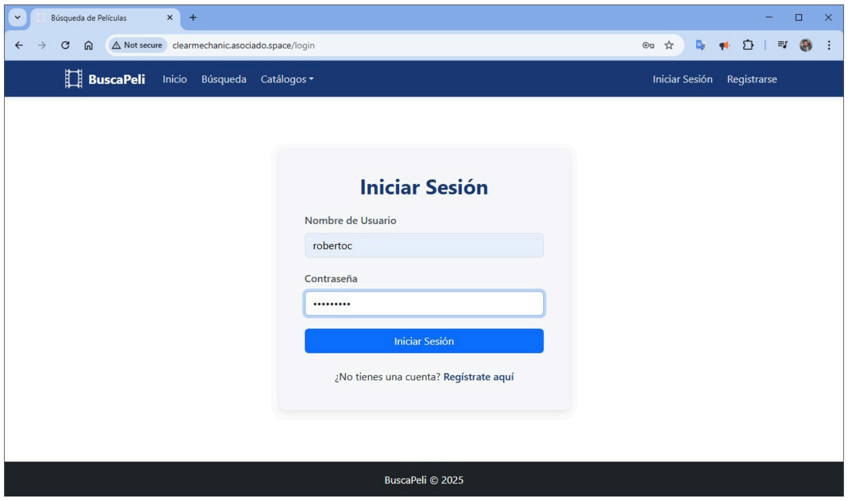
- Management of movies, genres, and actors (CRUD)


Búsqueda de Películas
Not secure clearmechanic.asociado.space/catalogo/peliculas
BuscaPeli
Inicio
Búsqueda
Catálogos
Hola, Roberto
Nueva Película
Ver
Editar
Eliminar
clearmechanic.asociado.space/catalogo/peliculas#

Catálogo de Películas

Los Vengadores	El Padrino	Titanic	El Caballero Oscuro
2012	1972	1997	2008
Acción, Ciencia Ficción, Aventura	Drama	Drama, Romance	Acción, Drama

- User authentication and authorization system



Iniciar Sesión

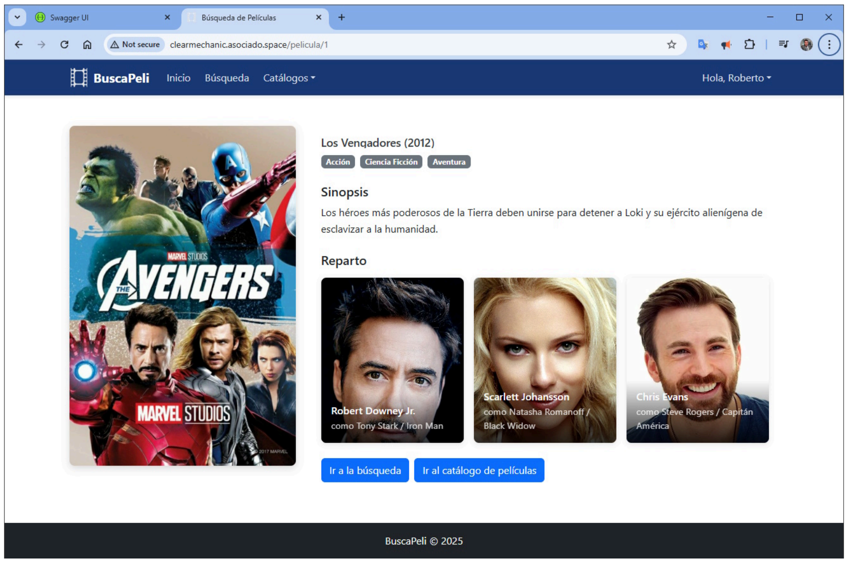
Nombre de Usuario: robertoc

Contraseña: ••••••••••

Iniciar Sesión

¿No tienes una cuenta? Regístrate aquí

- Association of movies with genres and actors



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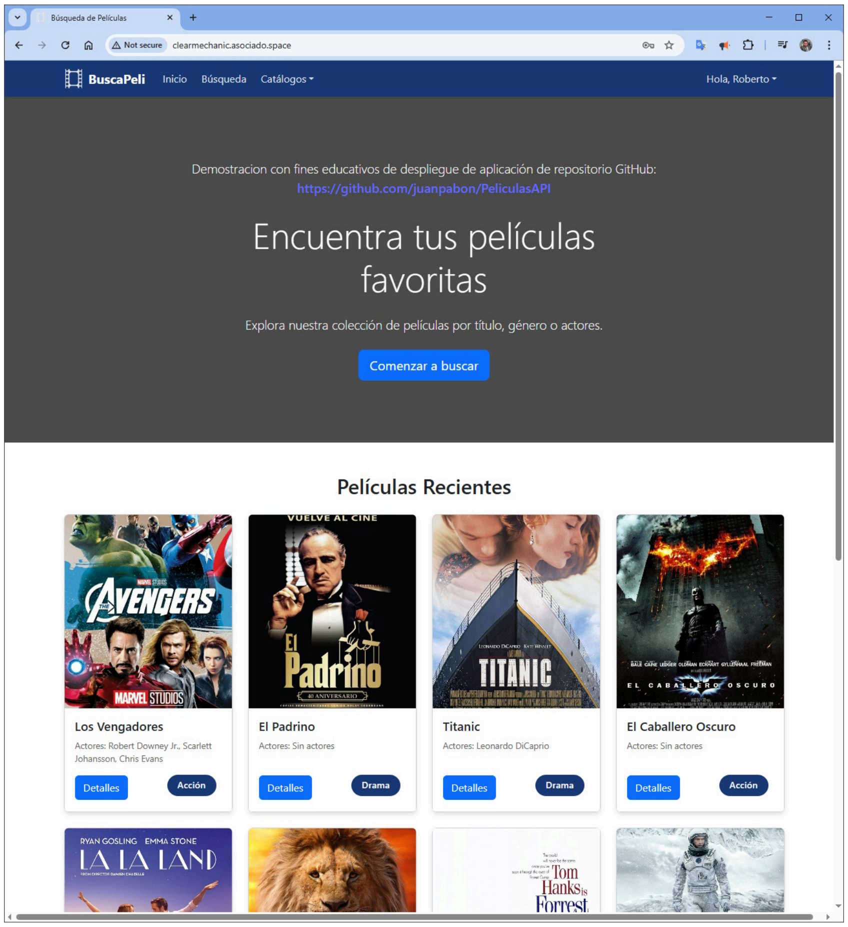
Reparto

Robert Downey Jr.
como Tony Stark / Iron Man

Scarlett Johansson
como Natasha Romanoff / Black Widow

Chris Evans
como Steve Rogers / Capitán América

- Home page: Landing page with featured movies and search functionality



Demostracion con fines educativos de despliegue de aplicación de repositorio GitHub:
https://github.com/juanpabon/PeliculasAPI

Encuentra tus películas favoritas

Explora nuestra colección de películas por título, género o actores.

Películas Recientes

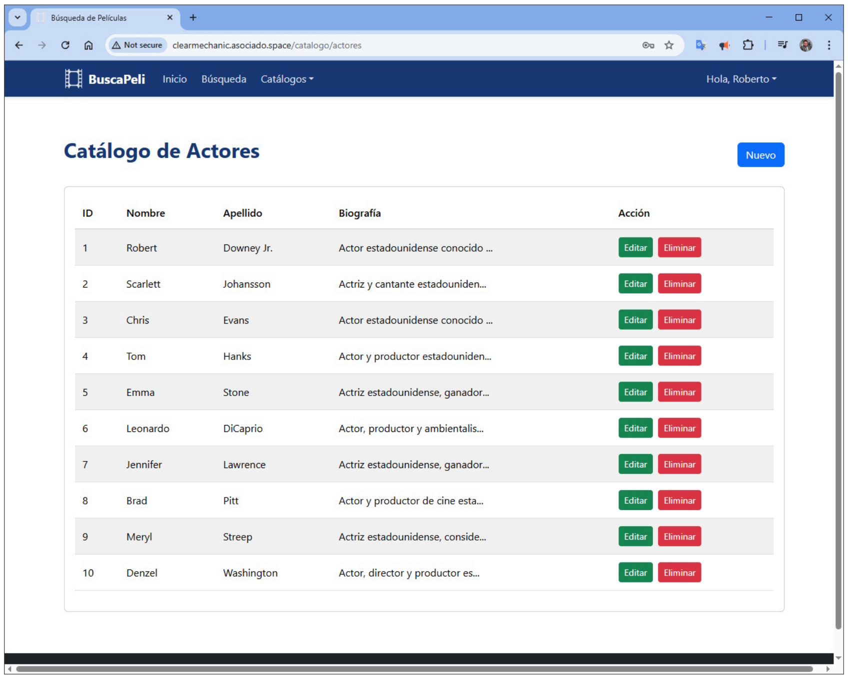
Los Vengadores
Actores: Robert Downey Jr., Scarlett Johansson, Chris Evans
Detalles Acción

El Padrino
Actores: Sin actores
Detalles Drama

Titanic
Actores: Leonardo DiCaprio
Detalles Drama

El Caballero Oscuro
Actores: Sin actores
Detalles Acción

- Actor management: Displays actor biography and filmography



Catálogo de Actores

ID	Nombre	Apellido	Biografía	Acción
1	Robert	Downey Jr.	Actor estadounidense conocido ...	Editar Eliminar
2	Scarlett	Johansson	Actriz y cantante estadouniden...	Editar Eliminar
3	Chris	Evans	Actor estadounidense conocido ...	Editar Eliminar
4	Tom	Hanks	Actor y productor estadouniden...	Editar Eliminar
5	Emma	Stone	Actriz estadounidense, ganador...	Editar Eliminar
6	Leonardo	DiCaprio	Actor, productor y ambientalis...	Editar Eliminar
7	Jennifer	Lawrence	Actriz estadounidense, ganador...	Editar Eliminar
8	Brad	Pitt	Actor y productor de cine esta...	Editar Eliminar
9	Meryl	Streep	Actriz estadounidense, conside...	Editar Eliminar
10	Denzel	Washington	Actor, director y productor es...	Editar Eliminar

Structure

The project is organized into:

- **BackEnd**: RESTful API developed in .NET Core 8.
  - Repositorio backend: https://github.com/roco170a/buscapelis-back
- **FrontEnd**: Client application developed with React, TypeScript, and Vite.
  - Repositorio frontend: https://github.com/roco170a/buscapelis-front

Stack

Backend

- .NET Core 8
- MS SQL Server / MS SQL Server Express
- Entity Framework Core
- ASP.NET Core Identity
- JWT for authentication

Frontend

- React.js
- TypeScript
- Vite as bundler

- Bootstrap for CSS styles
- Environment variables for configuration

Setup

Requirements

- .NET Core 8 SDK
- Node.js (version 14 or higher)
- SQL Server / SQL Server Express

DB Config

1. Create a SQL Server database
2. Configure the database user (appsettings.json), example:
   - User: usr_app_pelis
   - Password: 1*pruebas
   - Must have permissions for migrations

Config Backend

1. Download the repository `pelis-back`
2. Edit the `appsettings.json` file with the correct database configuration
3. Run the migrations: `dotnet ef database update`
4. Start the API: `dotnet run`

Config Frontend

1. Download the repository `pelis-front`
2. Install dependencies: `npm install`
3. Create `.env` file based on `.env.example` and configure the API URL
4. Start the application: `npm run dev`

Config variables frontend

Frontend Environment Variables

The frontend uses environment variables to configure different aspects of the application:

Variable	Description	Default Value
VITE_API_URL	API base URL	http://localhost:5278/api

Config files

The project includes several files to manage environment variables:

- `.env` : Variables for the local development environment
- `.env.example` : Example template for creating the `.env` file
- `.env.production` : Variables for the production environment

Implementation

Environment variables are mainly used in:

- `src/utils/api.ts` : REST API base configuration
- `src/services/authService.ts` : Authentication services

To access an environment variable in the code:

```
const apiUrl = import.meta.env.VITE_API_URL;
```

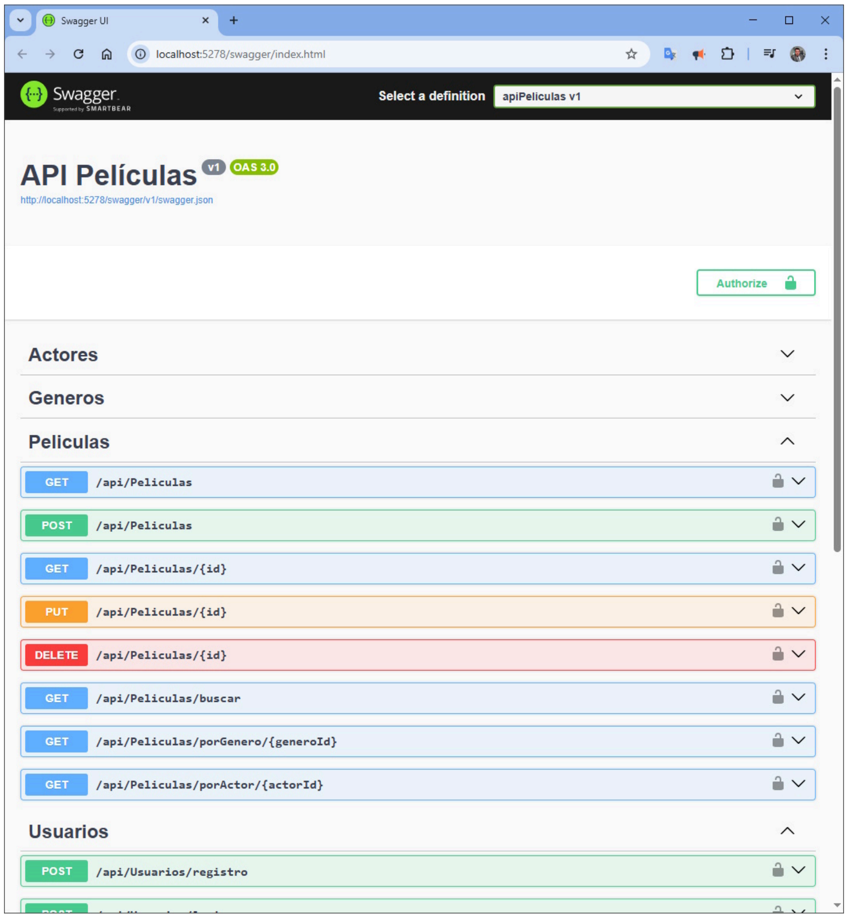
Note: In Vite, only variables that start with `VITE_` are exposed to the client code.

Authentication and Authorization

Although GET queries do not require authentication, JWT (JSON Web Tokens) are applied to POST, PUT, and DELETE methods which are generated by the backend and used by the frontend for these types of requests.

Endpoints

You can navigate into this solutions section, visit:
URL: http://clearmechanic.asociado.space/web/swagger



Swagger UI
localhost:5278/swagger/index.html
Swagger
Select a definition apiPeliculas v1

API Películas v1 OAS 3.0
http://localhost:5278/swagger/v1/swagger.json

Authorize

Actores
Generos
Peliculas
GET /api/Peliculas
POST /api/Peliculas
GET /api/Peliculas/{id}
PUT /api/Peliculas/{id}
DELETE /api/Peliculas/{id}
GET /api/Peliculas/buscar
GET /api/Peliculas/porGenero/{generoId}
GET /api/Peliculas/porActor/{actorId}
Usuarios
POST /api/Usuarios/registro

Películas

- `GET /api/Peliculas` : Get all movies
- `GET /api/Peliculas/{id}` : Get movie by ID
- `GET /api/Peliculas/buscar?criterioBusqueda={texto}` : Search movies by criteria
- `POST /api/Peliculas` : Create new movie
- `PUT /api/Peliculas/{id}` : Update movie
- `DELETE /api/Peliculas/{id}` : Delete movie

Géneros

- `GET /api/Generos` : Get all genres
- `GET /api/Generos/{id}` : Get genre by ID
- `POST /api/Generos` : Create new genre
- `PUT /api/Generos/{id}` : Update genre

- `DELETE /api/Generos/{id}`: Delete genre

Actores

- `GET /api/Actores`: Get all actors
- `GET /api/Actores/{id}`: Get actor by ID
- `POST /api/Actores`: Create new actor
- `PUT /api/Actores/{id}`: Update actor
- `DELETE /api/Actores/{id}`: Delete actor

Usuarios

- `POST /api/Usuarios/registro`: Register new user
- `POST /api/Usuarios/login`: Login
- `GET /api/Usuarios/roles`: Get available roles

Aditional features

Additional Features

- Result pagination
- Centralized error handling
- Frontend and backend data validation
- Responsive interface adapted to mobile devices
- Display of movie and actor images

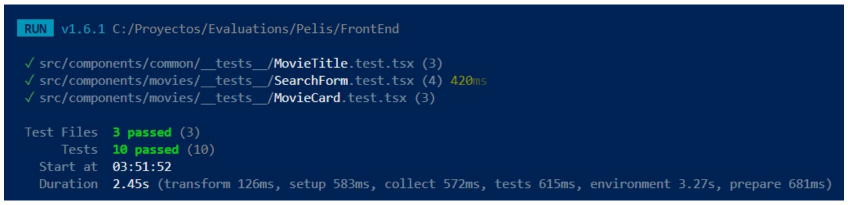
Code conventions

- **Comments**: All comments in the code are in English, preceded by the initials "RCC".
- **Environment Variables**: Environment variables in the frontend start with the prefix "VITE_".
- **Naming**: camelCase is used for variables and methods, PascalCase for classes and interfaces.
- **Estructura de Archivos**: Organización modular por características y funcionalidades.
- **File Structure**: Modular organization by features and functionalities.

Testing

The frontend includes unit tests for components using Vitest and React Testing Library. Tests verify that components render correctly and handle their props as expected.

Running Tests



```
 RUN  v1.6.1 C:/Proyectos/Evaluations/Pelis/FrontEnd

 ✓ src/components/common/__tests__/MovieTitle.test.tsx (3)
 ✓ src/components/movies/__tests__/SearchForm.test.tsx (4) 420ms
 ✓ src/components/movies/__tests__/MovieCard.test.tsx (3)

 Test Files  3 passed (3)
      Tests  10 passed (10)
   Start at  03:51:52
   Duration  2.45s (transform 126ms, setup 583ms, collect 572ms, tests 615ms, environment 3.27s, prepare 681ms)
```

To run the tests:

```
# Run all tests
npm test

# Run tests in watch mode during development
npm run test:watch
```

Test Structure

Tests are organized by component:

- `src/components/common/__tests__/` - Tests for common components
- `src/components/movies/__tests__/` - Tests for movie-related components

Testing Strategy

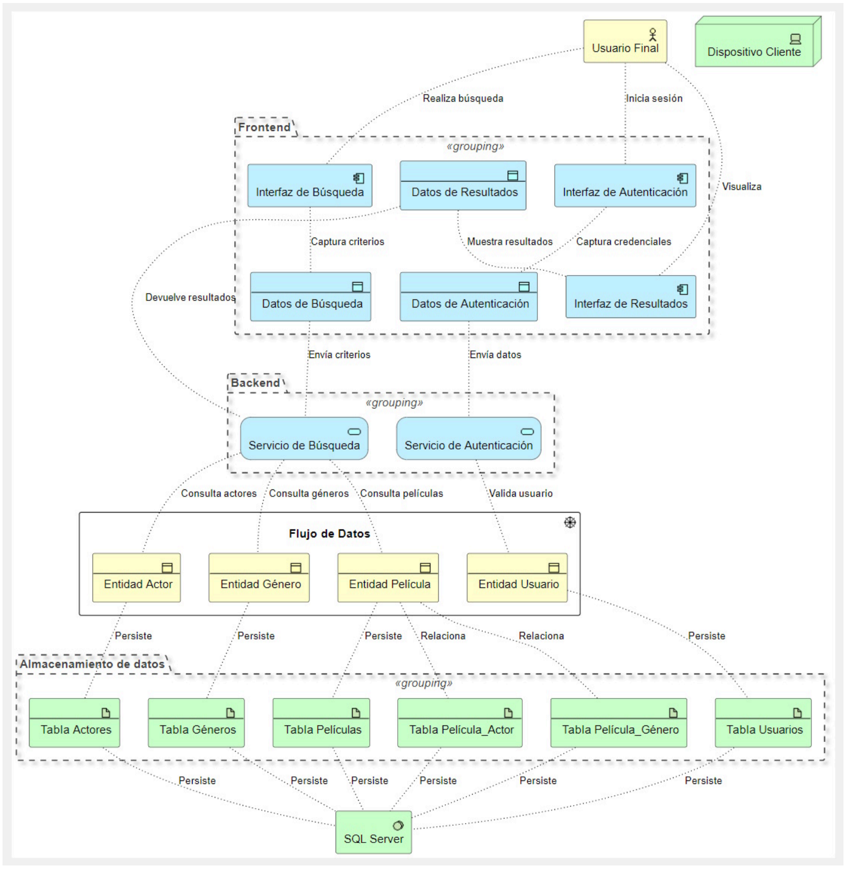
The tests focus on:

- Component rendering verification
- Props handling
- User interaction (where applicable)

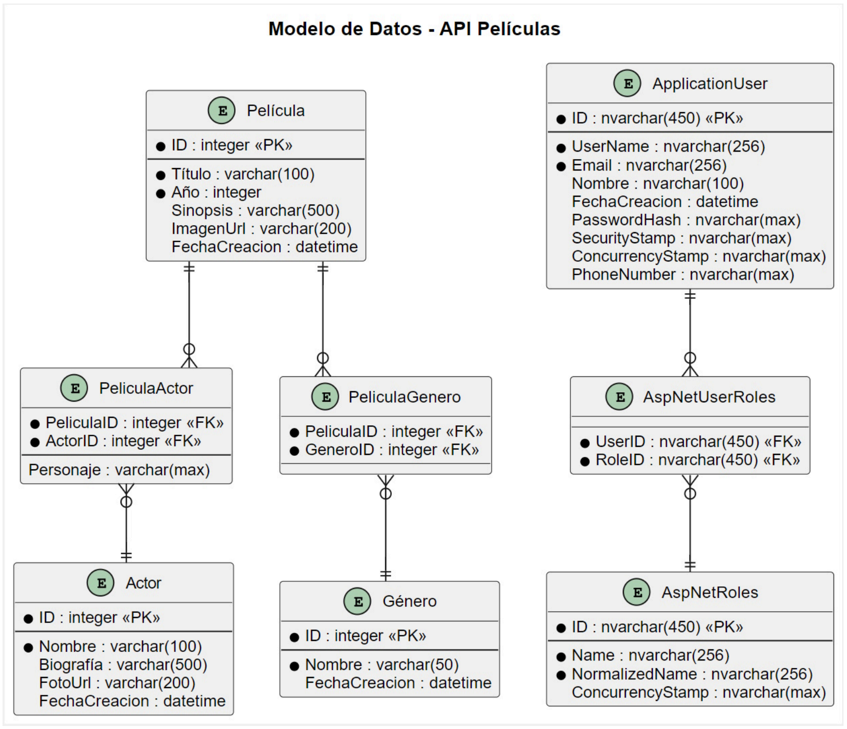
Additional Documentation

For more details about the project's operation, consult the specific documentation in the `/Arquitectura` folder:

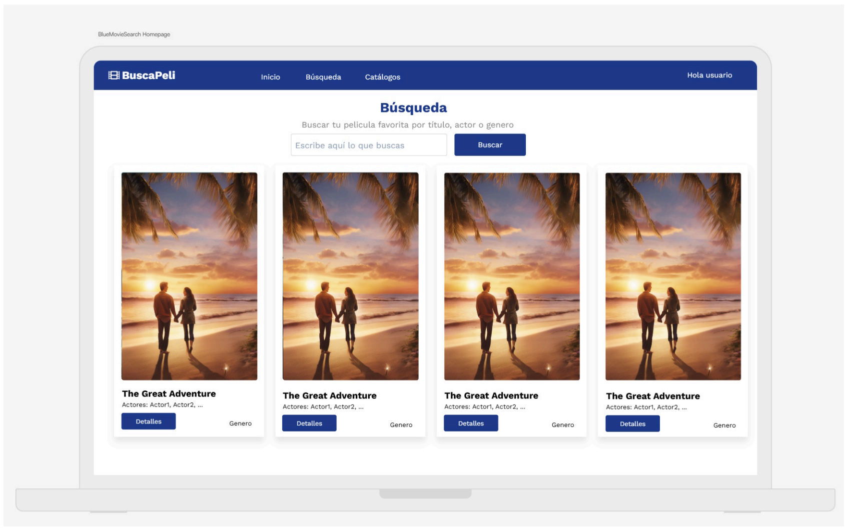
- **diagrama_aplicacion.puml**: General architecture diagram of the application



- **diagrama_tablas.puml**: Entity-relationship model of the database



- **datos_prueba.sql**: SQL script with test data for the application
- **wireframes**: sketches for previewing the principal idea



> Note: PUML files can be visualized with tools like PlantUML or extensions available for VS Code and other editors.