

Test Case Documentation for SOLICITEL's backend

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Test Documentation

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1 Introduction

This document outlines the test cases for SOLICITEL's backend, focusing on the models and views. The tests aim to ensure the proper functionality of user creation, profile retrieval, and role management.

2 Test Cases Summary

Test Identifier	Route/Model	Feature Tested	Description
TC001	/registro	User Registration	Tests if a new user can be created
TC002	/perfil	User Profile Retrieval	Tests if the user profile can be retrieved
TC003	UserProfile model	UserProfile Model	Tests if a UserProfile instance can be created
TC004	Role model	Role Model	Tests if a Role instance can be created
TC005	UserRole model	UserRole Model	Tests if a UserRole instance can be created

Table 1: Test case table

3 Test Details

3.1 TC001 - User Registration

Test Identifier: TC001

Route: /registro

Feature Tested: User Registration

Description: This test checks if a new user can be created using the registration endpoint.

Testing Design Identifier: Functional Test

Approach:

- Send a POST request to the registration endpoint with valid user data.
- Verify the response status code is 201 (Created).
- Ensure the user is created in the database.

Test Case:

3.2 TC002 - User Profile Retrieval

Test Identifier: TC002

Route: /perfil

Feature Tested: User Profile Retrieval

Description: This test checks if the user profile can be retrieved for an authenticated user.

Testing Design Identifier: Functional Test

Approach:

- Create a user and its associated profile.
- Authenticate the user using JWT tokens.
- Send a GET request to the profile endpoint.
- Verify the response status code is 200 (OK).
- Ensure the returned profile data matches the expected values.

3.3 TC003 - UserProfile Model Creation

Test Identifier: TC003

Route: N/A

Feature Tested: UserProfile Model

Description: This test checks if a UserProfile instance can be created.

Testing Design Identifier: Unit Test

Approach:

- Create a user and its associated profile.
- Verify the created profile's attributes.

3.4 TC004 - Role Model Creation

Test Identifier: TC004

Route: N/A

Feature Tested: Role Model

Description: This test checks if a Role instance can be created.

Testing Design Identifier: Unit Test

Approach:

- Create a role instance.
- Verify the created role's attributes.

3.5 TC005 - UserRole Model Creation

Test Identifier: TC005

Route: N/A

Feature Tested: UserRole Model

Description: This test checks if a UserRole instance can be created.

Testing Design Identifier: Unit Test

Approach:

- Create a user and a role.
- Create a UserRole instance linking the user and role.
- Verify the created UserRole's attributes.

4 Running the Tests

To run the tests, follow these steps:

1. Ensure you have Django and the necessary dependencies installed.
2. Navigate to the project's backend directory.
3. Run the following command:

```
python manage.py test
```

5 Test Results

Test Identifier	Result
TC001	Passed
TC002	Passed
TC003	Passed
TC004	Passed
TC005	Passed

Table 2: Test passed table

All tests have been executed and have passed successfully, ensuring that the user registration, profile retrieval, and role management functionalities are working as expected.

```
PS C:\Users\Sung\Documents\IS2_PAOI_24\espoltel-compras\espoltel-backend> python manage.py test
Found 5 test(s).
Creating test database for alias 'default'...
System check identified no issues (0 silenced).
.....
-----
Ran 5 tests in 1.296s

OK
Destroying test database for alias 'default'...
PS C:\Users\Sung\Documents\IS2_PAOI_24\espoltel-compras\espoltel-backend>
```

Figure 1: Evidence showing all tests have passed.