Teste QA Jr Documentation

1- Document Objectives

This document aims to identify the software components and requirements to be tested in the Contato Seguro CRUD project. In addition to identifying the system requirements, it will present the definition of acceptance criteria, detailed test cases, documentation, execution, results of the test cases, non-conformities and improvements.

2- Product Scope

The Contato Seguro system will be subject to integration tests, functional tests, and end-to-end tests, where the Database, Front-End, and Back-End will be validated. In integration tests, API tests will be validated using the Postman framework, while end-to-end validations will be validated through automation in Cypress.

3- System Requirements

- The system must allow the creation of new users with the mandatory fields: Nome, Email, Telefone, Data and Empresas.
- The system must validate the formats in the fields Email, Telefone, Data.
- The system must ensure that the Email and Telefone are unique.
- The system must allow the viewing, updating, and deletion of users registered on the platform.

4- Acceptance Criteria

- Successful registration: The user is successfully registered and a confirmation message is displayed.
- Successful registration with multiple companies: The user is successfully registered with multiple companies and a confirmation message is displayed.
- Name not filled in: The system displays an error message indicating that the name is required.
- Email not filled in: The system displays an error message indicating that the email is required.
- Invalid email format: The system displays an error message indicating that the email format is invalid.
- Duplicate email: The system displays an error message indicating that the email is already in use.
- Duplicate phone number: The system displays an error message indicating that the phone is already in use.
- Phone not filled in: The system displays an error message indicating that the phone is required.
- Invalid phone number format: The system displays an error message indicating that the phone format is invalid.
- Date not filled in: The system displays an error message indicating that the date is required.
- Future date: The system displays an error message indicating that the date is not valid.
- Company not selected: The system displays an error message indicating that the company is required.

- View created user: The user details are correctly displayed.
- User Update without name: The system displays an error message indicating that the name is required.
- User Update without email: The system displays an error message indicating that the email is required.
- User Update with invalid email format: The system displays an error message indicating that the email format is invalid.
- User Update with duplicate email: The system displays an error message indicating that the email is already in use.
- User Update without phone number: The system displays an error message indicating that the phone is required.
- User Update with invalid phone: The system displays an error message indicating that the phone format is invalid.
- User Update without date: The system displays an error message indicating that the date is required.
- User Update without company: The system displays an error message indicating that the company is required.
- Delete user registration: The registration is successfully removed and a confirmation message is displayed.
- Successfully create a new user via API: The user is successfully created via API and a success message is displayed.
- Create new user via API Bad Request: The user is not created and a Bad Request error message is returned from the API.
- Successfully view a user by ID via API: The API returns the data of the user searched by ID and a success message is displayed.
- View a user by ID via API Bad Request: The user cannot be viewed and a Bad Request error message is returned from the API.
- Successfully view all users via API: The API returns the data of all users and a success message is displayed.
- Successfullly view a user by ID: The API returns the data of a user and a success message is displayed.
- View a user by ID via API Bad Request: The API returns a Bad Request error message.
- Successfully update a user via API: The API updates the user data and a success message is displayed.
- Update user via API Bad Request: The user cannot be updated and a Bad Request error message is returned from the API.
- Successfullly delete a user via API: The API deletes the user data and a success message is displayed.
- Delete user not found via API: The API returns a 404 Not Found error message.
- Successfully create a new company via API: The company is successfully created via API and a success message is displayed.
- Create company via API Bad Request: The company cannot be created and a Bad Request error message is returned from the API.
- Successfully view all companies via API: The API returns the data of all companies and a success message is displayed.
- Successfully view a company by ID via API: The API returns the data of the company searched by ID and a success message is displayed.
- View a company by ID API Bad Request: The API does not return the company data and displays a Bad Request message.
- Successfully update a company via API: The API updates the company data and a success message is displayed.
- Update company via API Bad Request: The API does not update the company data and displays a Bad Request message.
- Successfully delete a company via API: The API deletes the company data and a success message is displayed.
- Delete company via API Bad Request: The API does not delete the company data and a Bad Request message is returned.

5- Test Cases

User Story:
As an administrator of the Contato Seguro system
I want to manage user accounts
So that I can ensure user information is up-to-date for the companies

Feature: Register User

#1 Scenario: Successful User Registration
Given the administrator is on the main page of the Contato Seguro system
And selects the "+Novo Usuário " button
When they fill in the "Nome" field with a valid name
And they fill in the "E-mail" field with a valid email
And they fill in the "Telefone" field with an area code and number
And they fill in the "Data" field with a valid date

And they select the desired company in the "Empresas" field
And they click the modal to close the dropdown menu
And they select the "Salvar" button
Then it should be possible to view the registered user on the main page

#2 Scenario: Successful User Registration multiple Companies
Given the administrator is on the main page of the Contato Seguro system
And selects the "+Novo Usuário " button
When they fill in the "Nome" field with a valid name
And they fill in the "E-mail" field with a valid email
And they fill in the "Telefone" field with an area code and number
And they fill in the "Data" field with a valid date
And they select the desired company in the "Empresas" field
And they select another company in the "Empresas" field
And they click the modal to close the dropdown menu
And they select the "Salvar" button
Then it should be possible to view the registered user on the main page

#3 Scenario: Name Not Filled In
Given the administrator is on the main page of the Contato Seguro system
And they select the "+Novo Usuário" button
When they leave the "Nome" field empty
And they fill in the "E-mail" field with a valid email
And they fill in the "Telefone" field with an area code and number
And they fill in the "Data" field with a valid date
And they select the desired company in the "Empresas" field
And they click the modal to close the dropdown menu
And they select the "Salvar" button
Then the system should alert the mandatory "Nome" field
And display a message requesting the empty field to be filled in

#**4 Scenario: Email Not Filled In**
Given the administrator is on the main page of the Contato Seguro system
And they select the "+Novo Usuário" button
When they fill in the "Nome" field with a valid name
And they leave the "E-mail" field empty
And they fill in the "Telefone" field with an area code and number
And they fill in the "Data" field with a valid date
And they select the desired company in the "Empresas" field
And they click the modal to close the dropdown menu
And they select the "Salvar" button
Then the system should alert the mandatory "E-mail" field
And display a message requesting the empty field to be filled in

#5 Scenario: Invalid Email Format
Given the administrator is on the main page of the Contato Seguro system
And they select the "+Novo Usuário" button
When they fill in the "Nome" field with a valid name
And they fill in the "E-mail" field with an invalid format
And they fill in the "Telefone" field with an area code and number
And they fill in the "Data" field with a valid date
And they select the desired company in the "Empresas" field
And they click the modal to close the dropdown menu

And they select the "Salvar" button
Then the system should alert an error about the value in the "E-mail" field
And display a message requesting the field to be filled in with a correct value

#6 Scenario: Duplicate Email

Given the administrator is on the main page of the Contato Seguro system
And they select the "+Novo Usuário" button
When they fill in the "Nome" field with a valid name
And they fill in the "E-mail" field with a previously registered email
And they fill in the "Telefone" field with an area code and number
And they fill in the "Data" field with a valid date
And they select the desired company in the "Empresas" field
And they click the modal to close the dropdown menu
And they select the "Salvar" button
Then the system should alert an error about the value in the "E-mail" field
And display a message requesting the field to be changed to a correct value

#7 Scenario: Phone Number Not Filled In

Given the administrator is on the main page of the Contato Seguro system
And they select the "+Novo Usuário" button
When they fill in the "Nome" field with a valid name
And they fill in the "E-mail" field with a valid email
And they leave the "Telefone" field empty
And they fill in the "Data" field with a valid date
And they select the desired company in the "Empresas" field
And they click the modal to close the dropdown menu
And they select the "Salvar" button
Then the system should alert the mandatory "Telefone" field
And display a message requesting the empty field to be filled in

#8 Scenario: Invalid Phone Number Format

Given the administrator is on the main page of the Contato Seguro system
And they select the "+Novo Usuário" button
When they fill in the "Nome" field with a valid name
And they fill in the "E-mail" field with a valid email
And they fill in the "Telefone" field with an invalid format
And they fill in the "Data" field with a valid date
And they select the desired company in the "Empresas" field
And they click the modal to close the dropdown menu
And they select the "Salvar" button
Then the system should alert an error about the value in the "Telefone" field
And display a message requesting the field to be changed to a correct value

#9 Scenario: Duplicate Phone Number

Given the administrator is on the main page of the Contato Seguro system
And they select the "+Novo Usuário" button
When they fill in the "Nome" field with a valid name
And they fill in the "E-mail" field with a valid email
And they fill in the "Telefone" field with a previously registered phone number
And they fill in the "Data" field with a valid date
And they select the desired company in the "Empresas" field
And they click the modal to close the dropdown menu
And they select the "Salvar" button

Then the system should alert an error about the value in the "Telefone" field
And display a message requesting the field to be changed to a correct value

#10 Scenario: Date Not Filled In

Given the administrator is on the main page of the Contato Seguro system
And they select the "+Novo Usuário" button
When they fill in the "Nome" field with a valid name
And they fill in the "E-mail" field with a valid email
And they fill in the "Telefone" field with an area code and number
And they leave the "Data" field empty
And they select the desired company in the "Empresas" field
And they click the modal to close the dropdown menu
And they select the "Salvar" button
Then the system should alert the mandatory "Data" field
And display a message requesting the empty field to be filled in

#11 Scenario: Future Date

Given the administrator is on the main page of the Contato Seguro system
And they select the "+Novo Usuário" button
When they fill in the "Nome" field with a valid name
And they fill in the "E-mail" field with a valid email
And they fill in the "Telefone" field with an area code and number
And they fill in the "Data" field with a future date
And they select the desired company in the "Empresas" field
And they click the modal to close the dropdown menu
And they select the "Salvar" button
Then the system should alert an error about the value in the "Data" field
And display a message requesting the field to be changed to a correct value

#12 Scenario: Company Not Selected

Given the administrator is on the main page of the Contato Seguro system
And they select the "+Novo Usuário" button
When they fill in the "Nome" field with a valid name
And they fill in the "E-mail" field with a valid email
And they fill in the "Telefone" field with an area code and number
And they fill in the "Data" field with a valid date
And they leave the "Empresas" field empty
And they click the modal to close the dropdown menu
And they select the "Salvar" button
Then the system should alert the mandatory "Empresas" field
And display a message requesting the empty field to be filled in

Feature: View User

#13 Scenario: View Created User

Given the administrator is on the main page of the Contato Seguro system
And they view the list of users
Then it should be possible to view the data of the registered user

Feature: Update User

#14 Scenario: User Update

Given the administrator is on the main page of the Contato Seguro system
And they select the "Editar Usuário" button
When they change the "Nome" field to a valid name

And they change the "E-mail" field to a valid email
And they change the "Telefone" field to an area code and number
And they change the "Data" field to a valid date
And they change the "Empresas" field to a valid company
And they select the "Salvar" button
Then it should be possible to view the updated user on the main page

#15 Scenario: User Update Without Name
Given the administrator is on the main page of the Contato Seguro system
And they select the "Editar Usuário" button
When they change the "Nome" field to an empty value
And they change the "E-mail" field to a valid email
And they change the "Telefone" field to an area code and number
And they change the "Data" field to a valid date
And they change the "Empresas" field to a valid company
And they select the "Salvar" button
Then the system should alert the mandatory "Nome" field
And display a message requesting the empty field to be filled in

#16 Scenario: User Update Without Email
Given the administrator is on the main page of the Contato Seguro system
And they select the "Editar Usuário" button
When they change the "Nome" field to a valid name
And they change the "E-mail" field to an empty value
And they change the "Telefone" field to an area code and number
And they change the "Data" field to a valid date
And they change the "Empresas" field to a valid company
And they select the "Salvar" button
Then the system should alert the mandatory "E-mail" field
And display a message requesting the empty field to be filled in

#17 Scenario: User Update with Invalid Email Format
Given the administrator is on the main page of the Contato Seguro system
And they select the "Editar Usuário" button
When they change the "Nome" field to a valid name
And they change the "E-mail" field to an invalid format
And they change the "Telefone" field to an area code and number
And they change the "Data" field to a valid date
And they change the "Empresas" field to a valid company
And they select the "Salvar" button
Then the system should alert the mandatory "E-mail" field
And display a message requesting the field to be changed to a correct value

#18 Scenario: User Update With Duplicate Email
Given the administrator is on the main page of the Contato Seguro system
And they select the "Editar Usuário" button
When they change the "Nome" field to a valid name
And they change the "E-mail" field to a previously registered email
And they change the "Telefone" field to an area code and number
And they change the "Data" field to a valid date
And they change the "Empresas" field to a valid company
And they select the "Salvar" button

Then the system should alert about the duplicate entry in the "E-mail" field
And display a message requesting the field to be changed to a unique value

#19 Scenario: User Update Without Phone Number
Given the administrator is on the main page of the Contato Seguro system
And they select the "Editar Usuário" button
When they change the "Nome" field to a valid name
And they change the "E-mail" field to a valid email
And they change the "Telefone" field to an empty value
And they change the "Data" field to a valid date
And they change the "Empresas" field to a valid company
And they select the "Salvar" button
Then the system should alert the mandatory "Telefone" field
And display a message requesting the empty field to be filled in

#20 Scenario: User Update With Invalid Phone Number Format
Given the administrator is on the main page of the Contato Seguro system
And they select the "Editar Usuário" button
When they change the "Nome" field to a valid name
And they change the "E-mail" field to a valid email
And they change the "Telefone" field to an invalid format
And they change the "Data" field to a valid date
And they change the "Empresas" field to a valid company
And they select the "Salvar" button
Then the system should alert an error about the value in the "Telefone" field
And display a message requesting the field to be changed to a correct value

#21 Scenario: User Update Without Date
Given the administrator is on the main page of the Contato Seguro system
And they select the "Editar Usuário" button
When they change the "Nome" field to a valid name
And they change the "E-mail" field to a valid email
And they change the "Telefone" field to an area code and number
And they change the "Data" field to an empty value
And they change the "Empresas" field to a valid company
And they select the "Salvar" button
Then the system should alert the mandatory "Data" field
And display a message requesting the empty field to be filled in

#22 Scenario: User Update Without Company
Given the administrator is on the main page of the Contato Seguro system
And they select the "Editar Usuário" button
When they change the "Nome" field to a valid name
And they change the "E-mail" field to a valid email
And they change the "Telefone" field to an area code and number
And they change the "Data" field to a valid date
And they change the "Empresas" field to an empty value
And they select the "Salvar" button
Then the system should alert the mandatory "Empresas" field
And display a message requesting the empty field to be filled in

Feature: Delete User

#23 Scenario: Delete User Registration

Given the administrator is on the main page of the Contato Seguro system

And they select the "Excluir" button for the user

Then the system should alert the successful deletion

And display a message stating "Success! User deleted successfully!"

#API User

Feature: Create a new user via API

#24 Scenario: Successfully create a new user via API

Given the API endpoint 'http://localhost:8400/api/user/create' is available

When a POST request is sent to the endpoint with the following JSON payload:

```
 """
 {
   "name": "<nome>",
   "email": "<email>",
   "companies": ["<company.id >"],
   "telephone": "<telephone>"
   "birth_date": "<yyyy/mm/dd>"
 }
 """
```

And the request header 'Content-Type' is set to 'application/json'

Then the response status code should be 200

And the response body should contain the user's details with "name" as "<name>", "email" as "<email>", "companies" containing "<company.id>", "telephone" containing "<telephone>" and "birth_date" containing "<yyyy/mm/dd>"

#Examples:

nome	email	company.id	telephone	birth date
Lucas Engelmann	lucasengelman@email.com	1	51985696919	1998/01/01
João Silva	joaosilva@email.com	4	11999182121	2000/07/03

#25 Scenario: Create new user via API Bad Request

Given the API endpoint 'http://localhost:8400/api/user/create' is available

When a POST request is sent to the endpoint with the following JSON payload:

```
 """
 {
   "name": "<nome>",
   "email": "<email>",
   "telephone": "<telephone>"
   "birth_date": "<yyyy/mm/dd>"
 }
 """
```

And the request header 'Content-Type' is set to 'application/json'

Then the response status code should be 400

And the response body should contain a message explaining "{"message": "invalid data!"}"

#Examples:

nome	email	telephone	birth date
Lucas Engelmann	lucasengelman@email.com	51985696919	1998/01/01
João Silva	joaosilva@email.com	11999182121	2000/07/03

Feature: View all users via API

#26 Scenario: Successfully view all users via API

Given the API endpoint 'http://localhost:8400/api/user' is available

When a GET request is sent to the endpoint
Then the response status code should be 200 with the user data
And the response body should contain a list of users
And each user in the list should have the fields "id_user", "name", "email", "telephone", "birth_date", "birth_city", "show" and "companies"

Feature: View a user by ID via API

#27 Scenario: Successfully View a user by ID
Given the API endpoint 'http://localhost:8400/api/user/{id}' is available
And a user with ID "<id_user>" exists in the system
When a GET request is sent to the endpoint with the user ID "<id_user>"
Then the response status code should be 200
And the response body should contain the user's details with "id" as "<id_user>"

#Examples: after retrieving all users, if a user has an id_user as:
| id_user |
| 33 |

#28 Scenario: View a user by ID via API Bad Request
Given the API endpoint 'http://localhost:8400/api/user/{id}' is available
And a user with ID "<id_user>" exists in the system
When a GET request is sent to the endpoint with the user ID "<id_user>"
Then the response status code should be 400
And the response body should contain a message explaining "{"message": "invalid data!"}"

#Examples: after retrieving all users, if using invalid format id:
| id_user |
| 00 |

Feature: Update a user via API

#29 Scenario: Successfully update a user via API
Given the API endpoint 'http://localhost:8400/api/user/{id}/update' is available
And a user with ID "<id_user>" exists in the system
When a PATCH request is sent to the endpoint with the user ID "<id_user>" and the following JSON payload:
```
 """
 {
   "name": "<nome>",
   "email": "<email>",
   "companies": ["<company.id>"]
 }
 """
```
And the request header 'Content-Type' is set to 'application/json'
Then the response status code should be 200: Updated user data
And the response body should contain the updated user's details with "name" as "<nome>", "email" as ""<email>", and "companies" containing ["<company.id >"]

#Examples:
http://localhost:8400/api/user/33/update

name	email	company.id
Lucas Engelmann	lucasengelman@gmail.com	4

#30 Scenario: Update user via API Bad Request
Given the API endpoint '<http://localhost:8400/api/user/{<id_user>>}/update' is available
And a user with ID "<id_user>" exists in the system
When a PATCH request is sent to the endpoint with the user ID "<id_user>" and the following JSON payload:

    """
    {
      "name": "<nome>",
      "email": "<email>",
      "companies": ["null"]
    }
    """
  And the request header 'Content-Type' is set to 'application/json'
  Then the response status code should be 400: Bad Request

```
#Examples:
```

http://localhost:8400/api/user/33/update

|name	email	company.id	id_user
Lucas Engelmann	lucasengelman@gmail.com	null	33

#31 Scenario: Successfully delete a user via API

  Given the API endpoint 'http://localhost:8400/api/user/{id_user}/delete' is available
  And a user with ID "<id_user>" exists in the system
  When a DELETE request is sent to the endpoint with the user ID "<id_user>"
  Then the user should be successfully deleted
  And the response status should be 200
  And the response message should be "data deleted successfully!"

#32 Scenario: Delete user not found via API

  Given the API endpoint 'http://localhost:8400/api/user/{id_user}/delete' is available
  And a user with ID "<id_user>" does not exist in the system
  When a DELETE request is sent to the endpoint with the user ID "<id_user>"
  Then the user should not be found
  And the response status should be 404
  And the response message should be "unable to delete data!"

#API Company

Feature: Create a new company via API

#33 Scenario: Successfully create a new company via API

  Given the API endpoint 'http://localhost:8400/api/company/create' is available
  When a POST request is sent to the endpoint with the following JSON payload:

```
    """
    {
  "name": "<name>">,
  "cnpj": "<cnpj>",
  "adress": {
    "cep": "<cep>",
    "country": "<country>",
    "city": "<city>",
    "state": "<state>",
    "street": "<street>",
    "number": "<number>",
    "district": "<district>"
  }
}
    """
```

  And the request header 'Content-Type' is set to 'application/json'

Then the response status code should be 201: Created company data

And the response body should contain the company's details with "name" as "<name>", "cnpj" as "<cnpj>", and "adress"

And each "adress" should contain "cep" as "<cep>", "country" as "<country>", "city" as "<city>", "street" "<street>", "number" as "<number>", and "district" as "<district>"

```
#Examples
|name            |cnpj              |cep        |country    |city       |state      | street           | number |d
|Teste Empresa   |71963761000197    |01310200   |Brazil     |São Paulo  |São Paulo  | Avenida Paulista | 1234   |B
```

#34 Scenario: Create a new company 400 via API Bad Request

Given the API endpoint 'http://localhost:8400/api/company/create' is available

When a POST request is sent to the endpoint with the following JSON payload:

"""

{

"name": "<name>",

"adress": {

"cep": "<cep>",

"country": "<country>",

"city": "<city>",

"state": "<state>",

"street": "<street>",

"number": "<number>",

"district": "<district>"

}

}

"""

And the request header 'Content-Type' is set to 'application/json'

Then the response status code should be 400: Bad Request

And the response body should alert {"message": "invalid data!"}

```
#Examples
|name            |cep        |country    |city       |state      | street            |number  |district
|Teste Empresa   |01310200   |Brazil     |São Paulo  |São Paulo  | Avenida Paulista  |1234    |Bela Vista
```

Feature: View all companies via API

#35 Scenario: Successfully View all companies

Given the API endpoint 'http://localhost:8400/api/company' is available

When a GET request is sent to the endpoint

Then the response status code should be 200

And the response body should contain a list of companies

And each company in the list should have the fields "id", "name", "cnpj", and "adress"

And each "adress" should contain "cep", "country", "city", "street", "number", and "district"

Feature: View a company by ID via API

#36 Scenario: Successfully view a company by ID via API

Given the API endpoint 'http://localhost:8400/api/company/{id}' is available

And a company with ID "<id_company>" exists in the system

When a GET request is sent to the endpoint with the company ID "<id_company>"

Then the response status code should be 200 with the company data

And the response body should contain the company's details with "id" as "<id_company>", "name", "cnpj", and "adress"

And the "adress" should contain "cep", "country", "city", "street", "number", and "district"

#37 Scenario: View a company by ID via API Bad Request

Given the API endpoint 'http://localhost:8400/api/company/{id}' is available
And a company with ID "<id_company>" exists in the system
When a GET request is sent to the endpoint with the company ID "<id_company>"
Then the response status code should be 400: Bad request
And the response body should contain {"message": "invalid data!"}

#Examples: after retrieving all users, if using a invalid format id:

id_company
00

Feature: Update a company via API

#38 Scenario: Successfully update a company via API

Given the API endpoint 'http://localhost:8400/api/company/{id}/update' is available
And a company with ID "<id_company>" exists in the system
When a PATCH request is sent to the endpoint with the company ID "<id_company>" and the following JSON payload:

```
 """
 {
"name": "<name>">,
"cnpj": "<cnpj>",
"adress": {
   "cep": "<cep>",
   "country": "<country>",
   "city": "<city>",
   "state": "<state>",
   "street": "<street>",
   "number": "<number>",
   "district": "<district>"
   }
 }
 """
```

And the request header 'Content-Type' is set to 'application/json'
Then the response status code should be 200: Updated company data
And the response body should contain the updated company's details with "name" as "<name>", "cnpj" as "<cnpj>", and "adress" containing "<cep>", "<country>", "<state>", "<city>", "<street>", "<number>", and "<district>"

#Examples

name	cnpj	cep	country	city	state	number	district
Atualiza Empresa	54300998000179	01310200	Brazil	São Paulo	São Paulo	1344	Bela Vista

#39 Scenario: Update company via API Bad Request

Given the API endpoint 'http://localhost:8400/api/company/{id}/update' is available
And a ID "<id_company>" is an invalid ID
When a PATCH request is sent to the endpoint with the invalid company ID "<id_company>" and the following JSON payload:

```
 """
 {
"name": "<name>">,
"cnpj": "<cnpj>",
"adress": {
   "cep": "<cep>",
   "country": "<country>",
   "city": "<city>",
   "state": "<state>",
   "street": "<street>",
   "number": "<number>",
   "district": "<district>"
   }
 }
 """
```

And the request header 'Content-Type' is set to 'application/json'
Then the response status code should be 400: Bad Request
And the response body should contain {"message": "invalid data!"}

#Examples

name	cnpj	cep	country	city	state	number	district
Atualiza Empresa	54300998000179	01310200	Brazil	São Paulo	São Paulo	1344	Bela Vista

#40 Scenario: Successfully delete a company via API

Given I have a company with ID "<id_company>"
When I send a DELETE request to 'http://localhost:8400/api/company/{id}/delete'
Then the company should be deleted successfully
And I should receive a 200 status code

#41 Scenario: Delete a company via API Bad Request

Given I have an invalid company ID '<invalid_id_company>'
When I send a DELETE request to '<http://localhost:8400/api/company/<invalid_id_company>/delete'
Then I should receive a 400 status code
And the response should indicate an invalid data

#Examples

invalid company id
abc

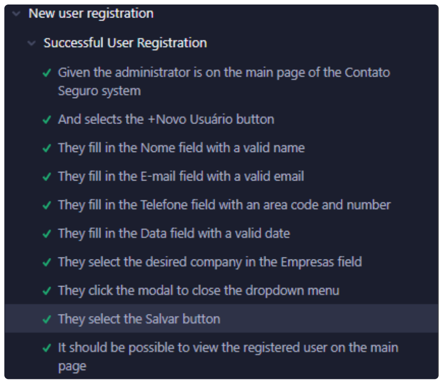
6- Test Case Results

Feature: Register user

Test Case ID: TC0001
Title: Successful User Registration
Description: Validate if a new user can be successfully registered in the system.
Pre-condition: The system must be accessible and the registration page must be open.
Steps:

Given that the administrator is on the main page of the Contato Seguro system
And selects the "+Novo Usuário" button
When filling in the "Nome" field with a valid name
And filling in the "E-mail" field with a valid email
And filling in the "Telefone" field with a DDD and number
And filling in the "Data" field with a valid date
And selecting the desired company in the "Empresas" field
And clicking the modal to close the dropdown menu
And selecting the "Salvar" button

Expected result: Then it should be possible to view the registered user on the main page.
Post-condition: The new user should be available for consultation on the main page.
Method used: Automated test via Cypress
Actual result: Registration successfully completed



New user registration

Successful User Registration

✓ Given the administrator is on the main page of the Contato Seguro system

✓ And selects the +Novo Usuário button

✓ They fill in the Nome field with a valid name

✓ They fill in the E-mail field with a valid email

✓ They fill in the Telefone field with an area code and number

✓ They fill in the Data field with a valid date

✓ They select the desired company in the Empresas field

✓ They click the modal to close the dropdown menu

✓ They select the Salvar button

✓ It should be possible to view the registered user on the main page

Test Case ID: TC0002

Title: Successful User Registration multiple Companies

Description: Validate if a new user can be successfully registered in the system using multiple companies.

Pre-condition: The system must be accessible and the registration page must be open.

Steps:

Given that the administrator is on the main page of the Contato Seguro system

And selects the "+Novo Usuário" button

When filling in the "Nome" field with a valid name

And filling in the "E-mail" field with a valid email

And filling in the "Telefone" field with a DDD and number

And filling in the "Data" field with a valid date

And selecting the desired company in the "Empresas" field

And selecting another company in the "Empresas" field

And clicking the modal to close the dropdown menu

And selecting the "Salvar" button

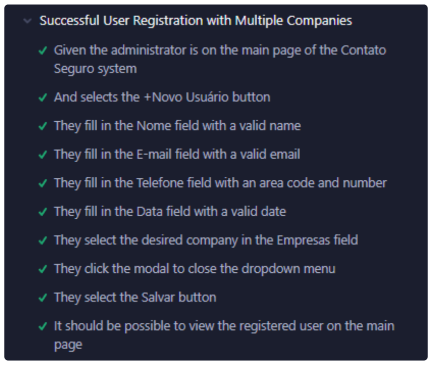
Expected result:

Then it should be possible to view the registered user on the main page.

Post-condition: The new user should be available for consultation on the main page.

Method used: Automated test via Cypress

Actual result: Registration successfully completed



Successful User Registration with Multiple Companies

✓ Given the administrator is on the main page of the Contato Seguro system

✓ And selects the +Novo Usuário button

✓ They fill in the Nome field with a valid name

✓ They fill in the E-mail field with a valid email

✓ They fill in the Telefone field with an area code and number

✓ They fill in the Data field with a valid date

✓ They select the desired company in the Empresas field

✓ They click the modal to close the dropdown menu

✓ They select the Salvar button

✓ It should be possible to view the registered user on the main page

Test Case ID: TC0003

Title: Name Not Filled In

Description: Validate if a user can be registered without filling in the required "Nome" field.

Pre-condition: The system must be accessible and the registration page must be open.

Steps:

Given that the administrator is on the main page of the Contato Seguro system
And selects the "+Novo Usuário" button
When the "Nome" field is left empty
And filling in the "E-mail" field with a valid email
And filling in the "Telefone" field with a DDD and number
And filling in the "Data" field with a valid date
And selecting the desired company in the "Empresas" field
And clicking the modal to close the dropdown menu
And selecting the "Salvar" button

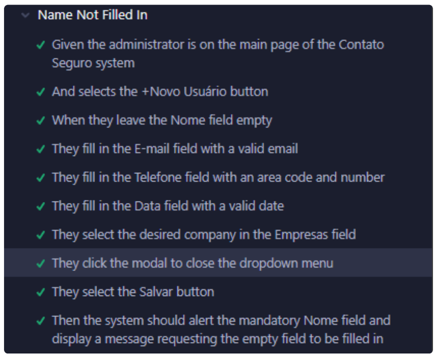
Expected result:

Then the system should alert the mandatory "Nome" field
And present a message requesting the completion of the empty field.

Post-condition: It should not be possible to register the new user.

Method used: Automated test via Cypress

Actual result: System alerted the need to fill the mandatory "Nome" field and presented a message requesting its completion



Name Not Filled In
- ✓ Given the administrator is on the main page of the Contato Seguro system
- ✓ And selects the +Novo Usuário button
- ✓ When they leave the Nome field empty
- ✓ They fill in the E-mail field with a valid email
- ✓ They fill in the Telefone field with an area code and number
- ✓ They fill in the Data field with a valid date
- ✓ They select the desired company in the Empresas field
- ✓ They click the modal to close the dropdown menu
- ✓ They select the Salvar button
- ✓ Then the system should alert the mandatory Nome field and display a message requesting the empty field to be filled in

Test Case ID: TC0004

Title: Email Not Filled In

Description: Validate if a user can be registered without filling in the required "E-mail" field.

Pre-condition: The system must be accessible and the registration page must be open.

Steps:

Given that the administrator is on the main page of the Contato Seguro system
And selects the "+Novo Usuário" button
When filling in the "Nome" field with a valid name
And leaving the "E-mail" field empty
And filling in the "Telefone" field with a DDD and number
And filling in the "Data" field with a valid date
And selecting the desired company in the "Empresas" field
And clicking the modal to close the dropdown menu
And selecting the "Salvar" button

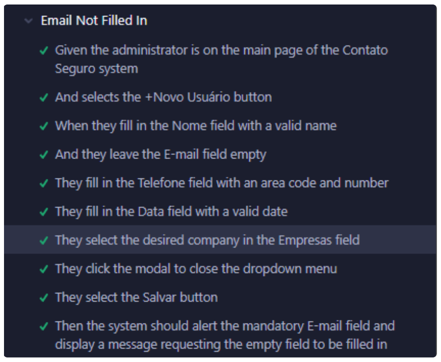
Expected result:

Then the system should alert the mandatory "E-mail" field
And present a message requesting the completion of the empty field.

Post-condition: It should not be possible to register the new user.

Method used: Automated test via Cypress

Actual result: System alerted the need to fill the mandatory "Email" field and presented a message requesting its completion


Email Not Filled In

✓ Given the administrator is on the main page of the Contato Seguro system

✓ And selects the +Novo Usuário button

✓ When they fill in the Nome field with a valid name

✓ And they leave the E-mail field empty

✓ They fill in the Telefone field with an area code and number

✓ They fill in the Data field with a valid date

✓ They select the desired company in the Empresas field

✓ They click the modal to close the dropdown menu

✓ They select the Salvar button

✓ Then the system should alert the mandatory E-mail field and display a message requesting the empty field to be filled in

Test Case ID: TC0005

Title: Invalid Email Format

Description: Validate if a user can be registered with an incorrectly formatted "E-mail" field.

Pre-condition: The system must be accessible, and the registration page must be open.

Steps:

Given that the administrator is on the main page of the Contato Seguro system

And selects the "+ Novo Usuário" button

When filling the "Nome" field with a valid name

And fills the "E-mail" field with an invalid format

And fills the "Telefone" field with a valid phone number

And fills the "Data" field with a valid date

And selects the desired company in the "Empresas" field

And clicks on the modal to close the dropdown menu

And selects the "Salvar" button

Expected Result:

Then the system should alert an error regarding the value in the "E-mail" field

And present a message requesting the correct value to be entered in the field.

Post-condition: It should not be possible to register the new user.

Actual Result: The test could not be automated due to the absence of an email format validation rule in the code, as it accepts any string without verifying the entered format.

Test Case ID: TC0006

Title: Duplicate Email

Description: Validate if a user can be registered with an email that has been previously used.

Pre-condition: Have a user previously created with the email used.

Steps:

Given that the administrator is on the main page of the Contato Seguro system

And selects the "+ Novo Usuário" button

When filling the "Nome" field with a valid name

And fills the "E-mail" field with a previously registered email

And fills the "Telefone" field with a valid phone number

And fills the "Data" field with a valid date

And selects the desired company in the "Empresas" field

And clicks on the modal to close the dropdown menu

And selects the "Salvar" button

Expected Result:

Then the system should alert an error regarding the value in the "E-mail" field

And present a message requesting the change of the field with the correct value.

Post-condition: It should not be possible to register the new user.

Actual Result: The test could not be automated due to the absence of a validation rule for registered emails in the system, as it accepts any string without verifying the format entered.

Test Case ID: TC0007
Title: Phone Number Not Filled In
Description: Validate if a user can be registered without filling in the required "Telefone" field.
Pre-condition: The system must be accessible and the registration page must be open.
Steps:
Given that the administrator is on the main page of the Contato Seguro system
And selects the "+ Novo Usuário" button
When filling in the "Nome" field with a valid name
And filling in the "E-mail" field with a valid email
And leaving the "Telefone" field empty
And filling in the "Data" field with a valid date
And selecting the desired company in the "Empresas" field
And clicking the modal to close the dropdown menu
And selecting the "Salvar" button
Expected result:
Then the system should alert the mandatory "Telefone" field
And present a message requesting the completion of the empty field.
Post-condition: It should not be possible to register the new user.
Actual result: Bug NCTC0007- The scenario couldn't be automated due to the absence of the 'Telefone' field as a mandatory requirement in the code, despite being documented as mandatory. When attempting to create a new user without providing the phone number, it allows the creation to proceed.

Test Case ID: TC0008
Title: Invalid Phone Number Format
Description: Validate if a user can be registered with an incorrect format in the mandatory field "Phone Number".
Pre-condition: The system must be accessible and the registration page must be open.
Steps:
Given that the administrator is on the main page of the Contato Seguro system
And selects the "+ Novo Usuário" button
When filling the "Nome" field with a valid name
And fills the "E-mail" field with a valid email
And fills the "Telefone" field with an invalid format
And fills the "Data" field with a valid date
And selects the desired company in the "Empresas" field
And clicks on the modal to close the dropdown menu
And selects the "Salvar" button
Expected Result:
Then the system should alert an error regarding the value in the "Telefone" field
And present a message requesting the change of the field with the correct value.
Post-condition: It should not be possible to register the new user.
Actual Result: The test could not be executed due to the impact of Bug NCCT0007.

Test Case ID: TC0010
Title: Date Not Filled In
Description: Validate if a user can be registered without filling the mandatory "Data" field.
Pre-condition: The system must be accessible and the registration page must be open.
Steps:
Given that the administrator is on the main page of the Contato Seguro system
And selects the "+ Novo Usuário" button
When filling the "Nome" field with a valid name

And fills the "E-mail" field with a valid email

And fills the "Telefone" field with a DDD and number

And leaves the "Data" field empty

And selects the desired company in the "Empresas" field

And clicks on the modal to close the dropdown menu

And selects the "Salvar" button

Expected Result:

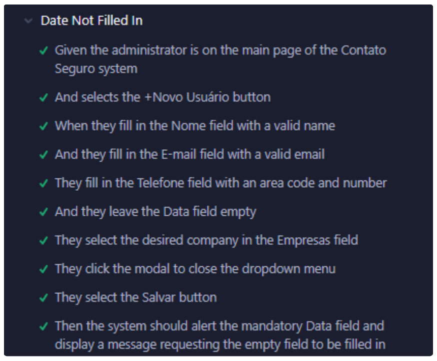
Then the system should alert the requirement of the "Data" field

And present a message requesting the completion of the empty field.

Post-condition: It should not be possible to register the new user.

Method used: Automated test via Cypress

Actual Result: The system alerted the need to fill the mandatory "Data" field and presented a message requesting its completion.



Date Not Filled In

- ✓ Given the administrator is on the main page of the Contato Seguro system
- ✓ And selects the +Novo Usuário button
- ✓ When they fill in the Nome field with a valid name
- ✓ And they fill in the E-mail field with a valid email
- ✓ They fill in the Telefone field with an area code and number
- ✓ And they leave the Data field empty
- ✓ They select the desired company in the Empresas field
- ✓ They click the modal to close the dropdown menu
- ✓ They select the Salvar button
- ✓ Then the system should alert the mandatory Data field and display a message requesting the empty field to be filled in

Test Case ID: TC0011

Title: Future Date

Description: Validate if a user can be registered with a future date.

Pre-condition: The system must be accessible and the registration page must be open.

Steps:

Given that the administrator is on the main page of the Contato Seguro system

And selects the "+ Novo Usuário" button

When filling the "Nome" field with a valid name

And fills the "E-mail" field with a valid email

And fills the "Telefone" field with a DDD and number

And fills the "Data" field with a future date

And selects the desired company in the "Empresas" field

And clicks on the modal to close the dropdown menu

And selects the "Salvar" button

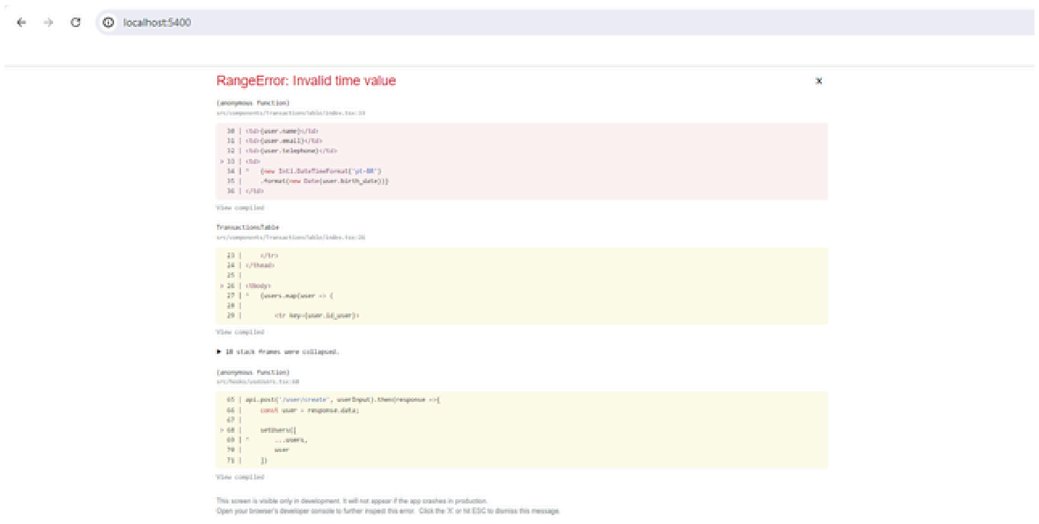
Expected Result:

Then the system should alert an error regarding the value in the "Data" field

And present a message requesting the correction of the field with the correct value.

Post-condition: It should not be possible to register the new user.

Actual Result: It was not possible to automate the test due to the absence of a validation rule preventing the registration of a user using a future date. Manually it was identified that when registering the user using a future date, the application started to break, signaling the error "RangeError: Invalid time value."



```
RangeError: Invalid time value

(anonymous function)
src/components/TransactionsTable/index.tsx:33

<td>{user.name}</td>
<td>{user.email}</td>
<td>{user.telephone}</td>
<td>
    {new Intl.DateTimeFormat('pt-BR')
    .format(new Date(user.birth_date))}
</td>
View compiled

TransactionsTable
src/components/TransactionsTable/index.tsx:26

    </tr>
</thead>

<tbody>
    {users.map(user => (

        <tr key={user.id_user}>
View compiled

▶ 18 stack frames were collapsed.

(anonymous function)
src/hooks/useUsers.tsx:68

api.post('/user/create', userInput).then(response =>{
    const user = response.data;

    setUsers([
        ...users,
        user
    ])
View compiled

This screen is visible only in development. It will not appear if the app crashes in production.
Open your browser's developer console to further inspect this error.  Click the 'X' or hit ESC to dismiss this message.
```

Test Case ID: TC0012

Title: Company Not Selected

Description: Validate if a user can be registered without filling the mandatory "Empresas" field.

Pre-condition: The system must be accessible and the registration page must be open.

Steps:

Given that the administrator is on the main page of the Contato Seguro system

And selects the "+ Novo Usuário" button

When filling the "Nome" field with a valid name

And fills the "E-mail" field with a valid email

And fills the "Telefone" field with a DDD and number

And fills the "Data" field with a valid date

And leaves the "Empresas" field empty

And selects the "Salvar" button

Expected Result:

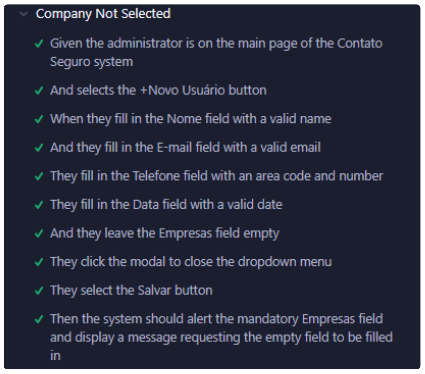
Then the system should alert the requirement for the "Empresas" field

And present a message requesting the completion of the empty field.

Post-condition: It should not be possible to register the new user.

Método utilizado: Automated test via Cypress

Actual result: The system alerted the need to fill the mandatory "Empresas" field and presented a message requesting its completion. "



Company Not Selected
- ✓ Given the administrator is on the main page of the Contato Seguro system
- ✓ And selects the +Novo Usuário button
- ✓ When they fill in the Nome field with a valid name
- ✓ And they fill in the E-mail field with a valid email
- ✓ They fill in the Telefone field with an area code and number
- ✓ They fill in the Data field with a valid date
- ✓ And they leave the Empresas field empty
- ✓ They click the modal to close the dropdown menu
- ✓ They select the Salvar button
- ✓ Then the system should alert the mandatory Empresas field and display a message requesting the empty field to be filled in

Functionality: View User

Test Case ID: TC0013

Title: View Created User

Description: Validate reading the data of the created user.

Pre-condition: Have a user created in the database.

Steps:

Given that the administrator is on the main page of the Contato Seguro system
And views the list of users

Expected Result:

Then it should be possible to view the data of the registered user.

Post-condition: The user should be available for inquiry.

Actual result: Scenario validated in TC0001

Funcionalidade: Atualizar usuário

Test Case ID: TC0014

Title: User Update

Description: Validate if user data can be successfully updated.

Pre-condition: Have a user created in the database.

Steps:

Given that the administrator is on the main page of the Contato Seguro system
And selects the "Editar Usuário" button
When changing the "Nome" field to a valid name
And changing the "E-mail" field to a valid email
And changing the "Telefone" field to a valid DDD and number
And changing the "Data" field to a valid date
And changing the "Empresas" field to a valid company
And clicks on the modal to close the dropdown menu
And selects the "Salvar" button

Expected Result:

Then it should be possible to view the updated user on the initial page.

Post-condition: The user should be available for inquiry.

Actual result: Bug NCTC0014 - The "Editar Usuário" button does not perform any action after interacting with it. It was not possible to automate the scenario due to bug NCTC0014.

Test Case ID: TC0015

Title: User Update Without Name

Description: Validate if a user can be updated without filling in the mandatory "Nome" field.

Pre-condition: Have a user created in the database.

Steps:

Given that the administrator is on the main page of the Contato Seguro system
And selects the "Editar Usuário" button
When changing the "Nome" field to an empty value
And changing the "E-mail" field to a valid email
And changing the "Telefone" field to a valid DDD and number
And changing the "Data" field to a valid date
And changing the "Empresas" field to a valid company
And clicks on the modal to close the dropdown menu
And selects the "Salvar" button

Expected Result:

Then the system should alert the requirement for the "Nome" field
And present a message requesting the completion of the empty field.

Post-condition: It should not be possible to update changes to the user.

Actual result: It was not possible to automate the scenario due to bug NCTC0014.

Test Case ID: TC0016

Title: User Update Without Email

Description: Validate if a user can be updated without filling in the mandatory "E-mail" field.

Pre-condition: Have a user created in the database.

Steps:

Given that the administrator is on the main page of the Contato Seguro system
And selects the "Editar Usuário" button
When changing the "Nome" field to a valid name
And changing the "E-mail" field to an empty value
And changing the "Telefone" field to a valid DDD and number
And changing the "Data" field to a valid date
And changing the "Empresas" field to a valid company
And clicks on the modal to close the dropdown menu
And selects the "Salvar" button

Expected Result:

Then the system should alert the requirement for the "E-mail" field
And present a message requesting the completion of the empty field.

Post-condition: It should not be possible to update changes to the user.

Actual Result: It was not possible to automate the scenario due to bug NCTC0014.

Test Case ID: TC0017

Title: User Update with Invalid Email Format

Description: Validate if a user can be updated with an incorrect format filled in the mandatory "E-mail" field.

Pre-condition: Have a user created in the database.

Steps:

Given that the administrator is on the main page of the Contato Seguro system
And selects the "Editar Usuário" button
When changing the "Nome" field to a valid name
And changing the "E-mail" field to an invalid format
And changing the "Telefone" field to a valid DDD and number
And changing the "Data" field to a valid date
And changing the "Empresas" field to a valid company
And clicks on the modal to close the dropdown menu
And selects the "Salvar" button

Expected Result:

Then the system should alert an error regarding the value in the "E-mail" field
And present a message requesting the completion of the field with correct value.

Post-condition: It should not be possible to update changes to the user.

Actual Result: It was not possible to automate the scenario due to bug NCTC0014 and the absence of an email format validation rule in the code as in TC0005.

Test Case ID: TC0018

Title: User Update With Duplicate Email

Description: Validate if a user can be updated with an email that has been previously used.

Pre-condition: Have a user created in the database and a user with the email to be used.

Steps:

Given that the administrator is on the main page of the Contato Seguro system
And selects the "Editar Usuário" button
When changing the "Nome" field to a valid name
And changing the "E-mail" field to a value previously registered

And changing the "Telefone" field to a valid DDD and number
And changing the "Data" field to a valid date
And changing the "Empresas" field to a valid company
And clicks on the modal to close the dropdown menu
And selects the "Salvar" button

Expected Result:

Then the system should alert about the duplication of the "E-mail" field registration
And present a message requesting the change of the field with the previously registered value.

Post-condition: It should not be possible to view changes to the user.

Actual Result: It was not possible to automate the scenario due to bug NCCT0013 and absence of an email format validation rule in the code as in TC0006.

Test Case ID: TC0019

Title: User Update Without Phone Number

Description: Validate if a user can be updated without filling in the mandatory "Telefone" field.

Pre-condition: Have a user created in the database.

Steps:

Given that the administrator is on the main page of the Contato Seguro system
And selects the "Editar Usuário" button
When changing the "Nome" field to a valid name
And changing the "E-mail" field to a valid email
And changing the "Telefone" field to an empty value
And changing the "Data" field to a valid date
And changing the "Empresas" field to a valid company
And clicks on the modal to close the dropdown menu
And selects the "Salvar" button

Expected Result:

Then the system should alert about the requirement of the "Telefone" field
And present a message requesting the filling of the empty field.

Post-condition: It should not be possible to view changes to the user.

Actual result: It was not possible to automate the scenario due to bug NCTC0007 and NCTC0014.

Test Case ID: TC0020

Title: User Update With Invalid Phone Number Format

Description: Validate if a user can be updated with incorrect format filled in the mandatory "Telefone" field.

Pre-condition: Have a user created in the database.

Steps:

Given that the administrator is on the main page of the Contato Seguro system
And selects the "Editar Usuário" button
When changing the "Nome" field to a valid name
And changing the "E-mail" field to a valid email
And changing the "Telefone" field to an invalid value
And changing the "Data" field to a valid date
And changing the "Empresas" field to a valid company
And clicks on the modal to close the dropdown menu
And selects the "Salvar" button

Expected Result:

Then the system should alert an error about the value in the "Telefone" field
And present a message requesting the correction of the field with the correct value.

Post-condition: It should not be possible to view changes to the user.

Actual result: It was not possible to automate the scenario due to bug NCTC0007 and NCTC0014.

Test Case ID: TC0021

Title: User Update Without Date

Description: Validate if a user can be updated without filling in the mandatory "Data" field.

Pre-condition: Have a user created in the database.

Steps:

Given that the administrator is on the main page of the Contato Seguro system
And selects the "Editar Usuário" button
When changing the "Nome" field to a valid name
And changing the "E-mail" field to a valid email
And changing the "Telefone" field to a valid value
And changing the "Data" field to an empty value
And changing the "Empresas" field to a valid company
And clicks on the modal to close the dropdown menu
And selects the "Salvar" button

Expected Result:

Then the system should alert the requirement of the "Data" field
And present a message requesting the filling of the empty field.

Post-condition: It should not be possible to view changes to the user.

Actual result: It was not possible to automate the scenario due to the bug NCTC0014.

Test Case ID: TC0022

Title: User Update Without Company

Description: Validate if a user can be updated without filling the mandatory "Empresas" field.

Pre-condition: Have a user created in the database.

Steps:

Given that the administrator is on the main page of the Contato Seguro system
And selects the "Editar Usuário" button
When changing the "Nome" field to a valid name
And changing the "E-mail" field to a valid email
And changing the "Telefone" field to a valid value
And changing the "Data" field to a valid value
And changing the "Empresas" field to an empty value
And selecting the "Salvar" button

Expected Result:

Then the system should alert about the requirement of the "Empresas" field
And present a message requesting the completion of the empty field.

Post-condition: It should not be possible to view changes in the user.

Actual Result: It was not possible to automate the scenario due to the bug NCTC0014.

Test Case ID: TC0024

Title: Successfully create a new user via API

Description: Validate if the API can create a user

Pre-condition: Have access to the environment and the collection

Steps:

Given the API endpoint 'http://localhost:8400/api/user/create' is available
When a POST request is sent to the endpoint with the following JSON payload:

```
""""
{
  "name": "Lucas Engelmann",
  "email": "lucasengelman@gmail.com",
  "companies": ["5"],
  "telephone": "51985696919",
```

"birth_date": "1998/08/12"
}
""""

And the request header 'Content-Type' is set to 'application/json'

Expected Result:

Then the response status code should be 200

And the response body should contain the user's details

Post-condition: it should be possible to see the user's details in the body response

Actual Result: The body response was the user's details with "name" as "Lucas Engelmann", "email" as "lucasengelman@gmail.com", "companies" containing "Contato Segur...", "telephone" containing "51985696919" and "birth_date" containing "1998/08/12"

Test Case ID: TC0025

Title: Create new user via API Bad Request

Description: Validate the API bad request return for user creation

Pre-condition: Have access to the environment and the collection

Steps:

Given the API endpoint 'http://localhost:8400/api/user/create' is available

When a POST request is sent to the endpoint with the following JSON payload:

""""
{
"name": "Lucas Gonçalves",
"email": "lucasgoncalves@gmail.com",
"telephone": "51999952314",
"birth_date": "1999/01/01"
}
""""

And the request header 'Content-Type' is set to 'application/json'

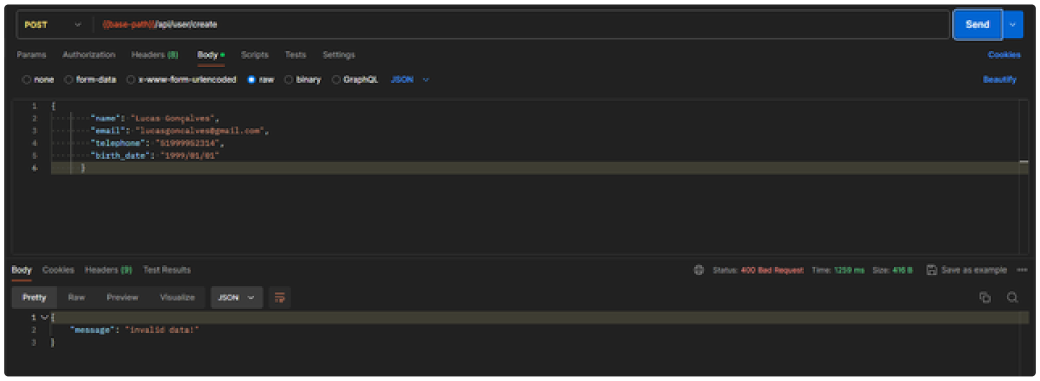
Expected Result:

Then the response status code should be 400

And the response body should contain a message explaining "{"message": "invalid data!"}"

Post-condition: it should be possible to see the message explaining the error

Actual Result: The body response was a message explaining "{"message": "invalid data!"}" with a 400 Bad Request code



POST {{base-path}}/api/user/create

```
{
    "name": "Lucas Gonçalves",
    "email": "lucasgoncalves@gmail.com",
    "telephone": "51999952314",
    "birth_date": "1999/01/01"
  }
```

Status: 400 Bad Request Time: 1259 ms Size: 416 B

```
{
    "message": "invalid data!"
}
```

Test Case ID: TC0026

Title: Successfully view all users via API

Description: Validate if the API can view all users information

Pre-condition: Have access to the environment and the collection, at least one user created

Steps:

Given the API endpoint 'http://localhost:8400/api/user' is available

When a GET request is sent to the endpoint

Expected Result:

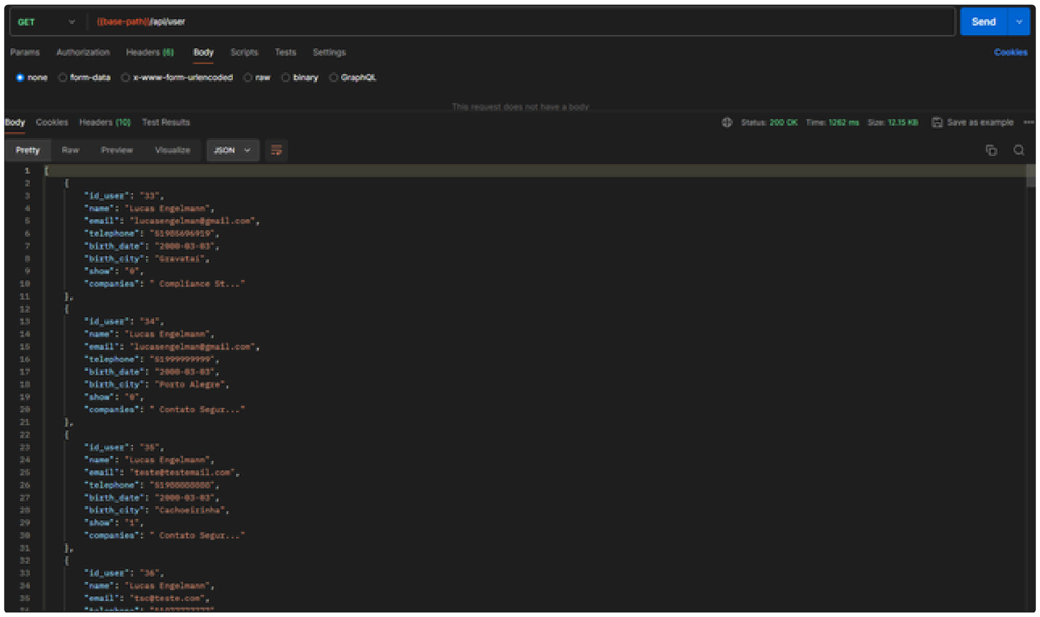
Then the response status code should be 200 with the user data

And the response body should contain a list of users

And each user in the list should have the fields "id_user", "name", "email", "telephone", "birth_date", "birth_city", "show" and "companies"

Post-condition: it should be possible to see the list of existing users

Actual Result:The body response was a list of existing users with a 200 code



```
[
    {
        "id_user": "33",
        "name": "Lucas Engelmann",
        "email": "lucasengelman@gmail.com",
        "telephone": "51985696919",
        "birth_date": "2000-03-03",
        "birth_city": "Gravatai",
        "show": "0",
        "companies": " Compliance St..."
    },
    {
        "id_user": "34",
        "name": "Lucas Engelmann",
        "email": "lucasengelman@gmail.com",
        "telephone": "51999999999",
        "birth_date": "2000-03-03",
        "birth_city": "Porto Alegre",
        "show": "0",
        "companies": " Contato Segur..."
    },
    {
        "id_user": "35",
        "name": "Lucas Engelmann",
        "email": "teste@testemail.com",
        "telephone": "51988888888",
        "birth_date": "2000-03-03",
        "birth_city": "Cachoeirinha",
        "show": "1",
        "companies": " Contato Segur..."
    },
    {
        "id_user": "36",
        "name": "Lucas Engelmann",
        "email": "tsc@teste.com",
```

Test Case ID: TC0027

Title: Successfully view a user by ID

Description: Validate if the API can view a user information using its ID

Pre-condition: Have access to the environment and the collection, at least one user created

Steps:

Given the API endpoint 'http://localhost:8400/api/user/{id}' is available

And a user with ID "113" exists in the system

When a GET request is sent to the endpoint with the user ID "113"

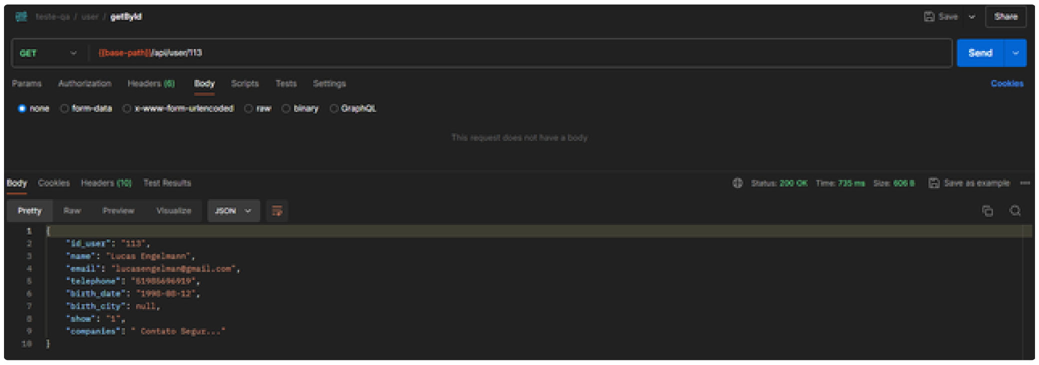
Expected Result:

Then the response status code should be 200

And the response body should contain the user's details with "id" as "113"

Post-condition: it should be possible to see the user's information

Actual Result: The body response was the user's information with a 200 code



GET {{base-path}}/api/user/113

This request does not have a body

Status: 200 OK Time: 735 ms Size: 606 B

```
{
    "id_user": "113",
    "name": "Lucas Engelmann",
    "email": "lucasengelman@gmail.com",
    "telephone": "51986696919",
    "birth_date": "1998-08-12",
    "birth_city": null,
    "show": "1",
    "companies": " Contato Segur..."
}
```

Test Case ID: TC0028

Title: View a user by ID via API Bad Request

Description: Validate the API Bad Request return for retrieving a user using its ID

Pre-condition: Have access to the environment and the collection, at least one user created, use a invalid format id

Steps:

Given the API endpoint 'http://localhost:8400/api/user/{id}' is available

And a user with ID "00" doesn't exist in the system

When a GET request is sent to the endpoint with the user ID "00"

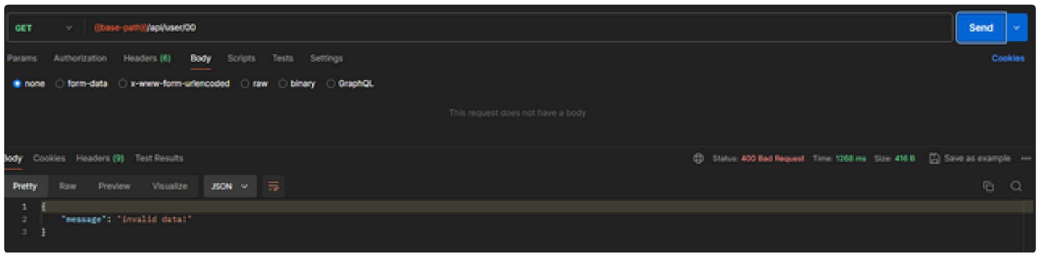
Expected Result:

Then the response status code should be 400

And the response body should contain a message explaining "{"message": "invalid data!"}"

Post-condition: it should be possible to see the message explaining the error

Actual Result: The body response was a message explaining "{"message": "invalid data!"}" with a 400 Bad Request code



GET {{base-path}}/api/user/00

This request does not have a body

Status: 400 Bad Request Time: 1268 ms Size: 416 B

```
{
    "message": "invalid data!"
}
```

Test Case ID: TC0029

Title: Successfully update a user via API

Description: Validate if the API can update a user

Pre-condition: Have access to the environment and the collection, at least one user created

Steps:

Given the API endpoint 'http://localhost:8400/api/user/{id}/update' is available

And a user with ID "113" exists in the system

When a PATCH request is sent to the endpoint with the user ID "113" and the following JSON payload:

```
""""
{
  "name": "Update Name",
  "email": "update@email.com",
  "companies": ["1"]
}
""""
```

And the request header 'Content-Type' is set to 'application/json'

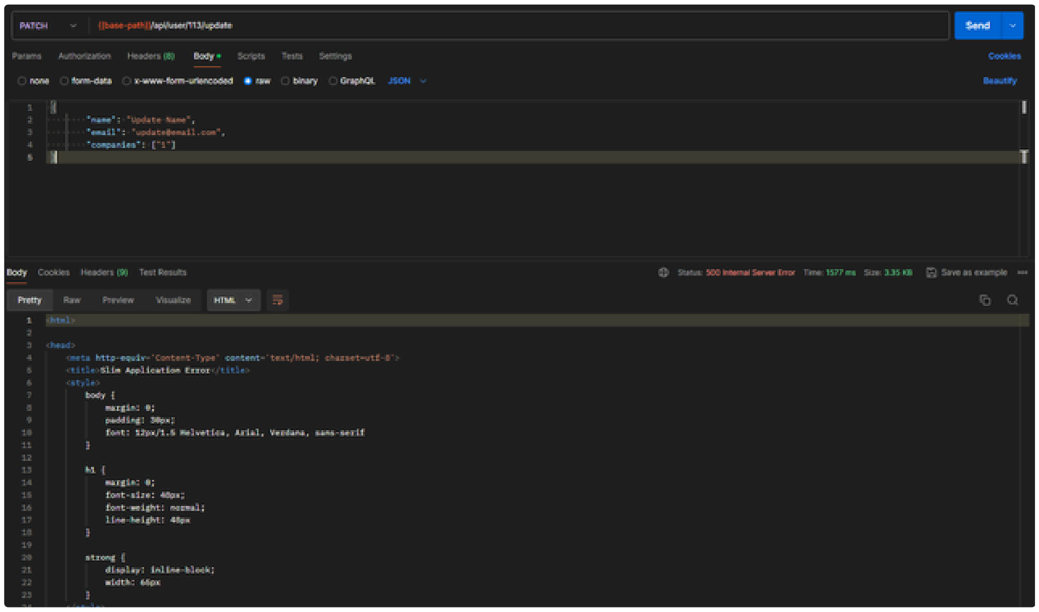
Expected Result:

Then the response status code should be 200

And the response body should contain the updated user's details

Post-condition: the body response should a success message

Actual Result: Bug NCTC0029: When attempting to update a user's information, a 500 error is returned as show in



```
{{base-path}}/api/user/113/update
```

```
{
    "name": "Update Name",
    "email": "update@email.com",
    "companies": ["1"]
}
```

Status: 500 Internal Server Error Time: 1577 ms Size: 3.35 KB

```
<html>

<head>
    <meta http-equiv="Content-Type" content="text/html; charset=utf-8">
    <title>Slim Application Error</title>
    <style>
        body {
            margin: 0;
            padding: 30px;
            font: 12px/1.5 Helvetica, Arial, Verdana, sans-serif
        }

        h1 {
            margin: 0;
            font-size: 48px;
            font-weight: normal;
            line-height: 48px
        }

        strong {
            display: inline-block;
            width: 65px
        }
```

Test Case ID: TC0030

Title: Update user via API Bad Request

Description: Validate the API bad request return for updating a user

Pre-condition: Have access to the environment and the collection, at least one user created

Steps:

Given the API endpoint 'http://localhost:8400/api/user/{id}/update' is available

And a user with ID "113" exists in the system

When a PATCH request is sent to the endpoint with the user ID "113" and the following JSON payload:

""""

{

"name": "Update Name",

"email": "update@email.com",

"companies": ["1000"]

}

""""

And the request header 'Content-Type' is set to 'application/json'

Expected Result: Then the response status code should be 400

Post-condition: The body response should show a message informing the bad request

Actual Result: Bug NCTC0029: When attempting to update a user's information, a 500 error is returned as show in

Test Case ID: TC0031

Title: Successfully delete a user via API

Description: Validate if the API can delete a user

Pre-condition: Have access to the environment and the collection, at least one user created

Steps:

Given the API endpoint 'http://localhost:8400/api/user/{id_user}/delete' is available

And a user with ID "113" exists in the system

When a DELETE request is sent to the endpoint with the user ID "113"

Expected Result:

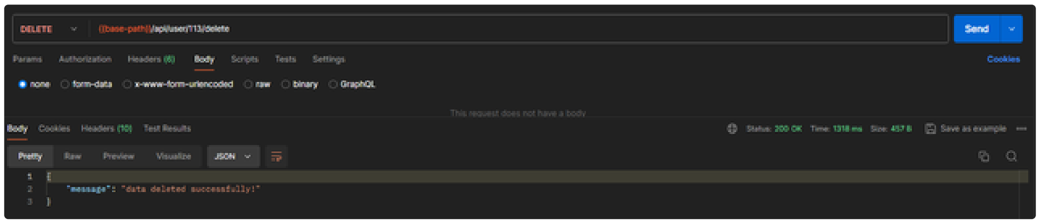
Then the user should be successfully deleted

And the response status should be 200

And the response message should be "data deleted successfully!"

Post-condition: The body response should show a message informing the user data was deleted

Actual Result: The body response informed that {"message": "data deleted successfully!"} with a 200 code



DELETE {{base-path}}/api/user/113/delete

● none ○ form-data ○ x-www-form-urlencoded ○ raw ○ binary ○ GraphQL

This request does not have a body

Status: 200 OK Time: 1318 ms Size: 457 B

```
{
    "message": "data deleted successfully!"
}
```

Test Case ID: TC0032

Title: Delete user not found via API

Description: Validate the return when the API tries to delete a user who doesn't exist

Pre-condition: Have access to the environment and the collection, at least one user created, use a non-existing id

Steps:

Given the API endpoint 'http://localhost:8400/api/user/{id_user}/delete' is available

And a user with ID "300" does not exist in the system

When a DELETE request is sent to the endpoint with the user ID "300"

Expected Result:

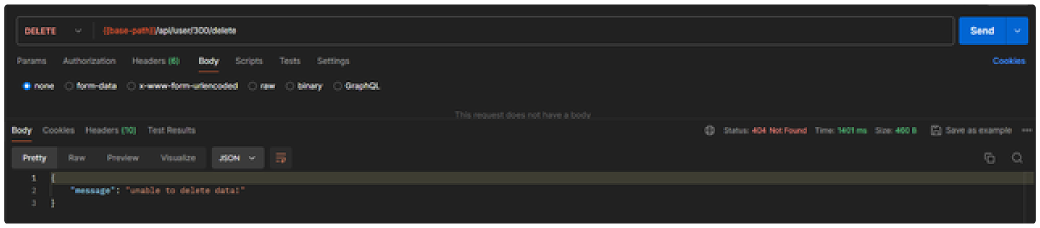
Then the user should not be found

And the response status should be 404

And the response message should be "unable to delete data!"

Post-condition: The body response should show a message informing that it wasn't able to delete the data

Actual Result: the body response informed that {"message": "unable to delete data!"}



DELETE {{base-path}}/api/user/300/delete

● none ○ form-data ○ x-www-form-urlencoded ○ raw ○ binary ○ GraphQL

This request does not have a body

Status: 404 Not Found Time: 1401 ms Size: 460 B

```
{
    "message": "unable to delete data!"
}
```

Test Case ID: TC0033

Title: Successfully create a new company via API

Description: Validate if the API can create a new company

Pre-condition: Have access to the environment and the collection

Steps:

Given the API endpoint 'http://localhost:8400/api/company/create' is available

When a POST request is sent to the endpoint with the following JSON payload:

"""

{
"name": "Empresa TC0033",
"cnpj": "71963761000197",
"adress": {
"cep": "01310200",
"country": "Brazil",
"city": "São Paulo",
"state": "São Paulo",
"street": "Avenida Paulista",
"number": "1234",
"district": "Bela Vista"
}
}
"""

And the request header 'Content-Type' is set to 'application/json'

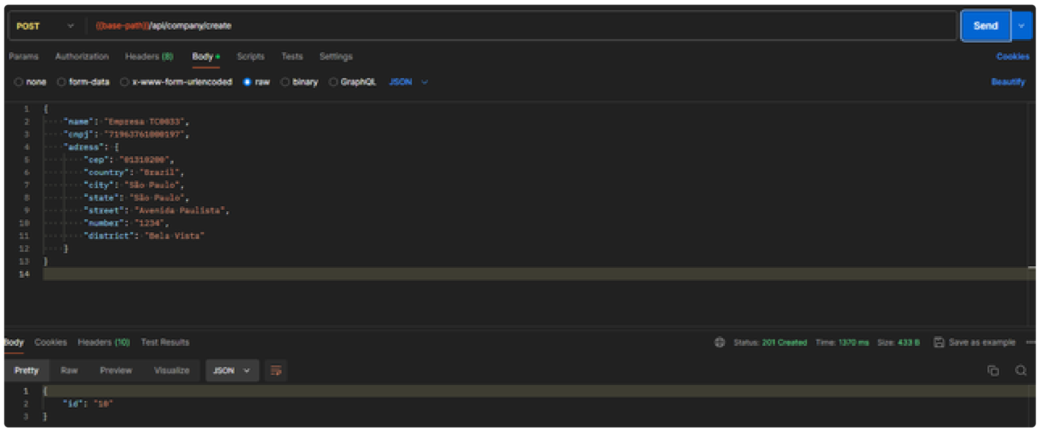
Expected Result:

Then the response status code should be 201: Created company data

And the response body should contain the company's id

Post-condition: The created company's id should be show in the response body

Actual Result: The body response informed that new company {"id": "10"} with a 201 code



POST {{base-path}}/api/company/create

```
{
    "name": "Empresa TC0033",
    "cnpj": "71963761000197",
    "adress": {
        "cep": "01310200",
        "country": "Brazil",
        "city": "São Paulo",
        "state": "São Paulo",
        "street": "Avenida Paulista",
        "number": "1234",
        "district": "Bela Vista"
    }
}
```

Status: 201 Created Time: 1370 ms Size: 433 B

```
{
    "id": "10"
}
```

Test Case ID: TC0034

Title: Create a new company 400 via API Bad Request

Description: Validate the API bad request return for creating a company

Pre-condition: Have access to the environment and the collection

Steps:

Given the API endpoint 'http://localhost:8400/api/company/create' is available

When a POST request is sent to the endpoint with the following JSON payload:

{
"name": "Teste Empresa",
"adress": {
"cep": "01310200",
"country": "Brazil",
"city": "São Paulo",
"state": "São Paulo",
"street": "Avenida Paulista",

"number": "1234",

"district": "Bela Vista"

}

}

And the request header 'Content-Type' is set to 'application/json'

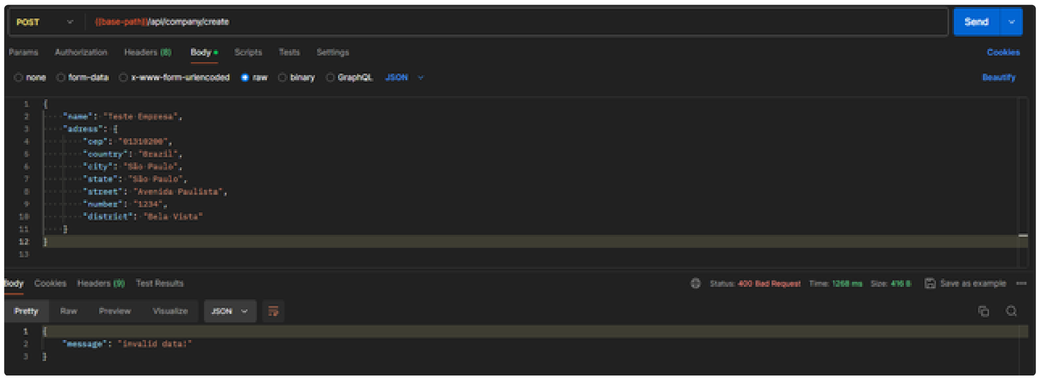
Expected Result:

Then the response status code should be 400: Bad Request

And the response body should contain a message explaining the error

Post-condition: The body response should show a message informing that it wasn't able to create a new company

Actual Result: The body response informed a {"message": "invalid data!"} with a 400 status code



```
{
    "name": "Teste Empresa",
    "adress": {
        "cep": "01310200",
        "country": "Brazil",
        "city": "São Paulo",
        "state": "São Paulo",
        "street": "Avenida Paulista",
        "number": "1234",
        "district": "Bela Vista"
    }
}
```

Status: 400 Bad Request Time: 1268 ms Size: 416 B

```
{
    "message": "invalid data!"
}
```

Test Case ID: TC0035

Title: Successfully view all companies

Description: Validate if the API can view all companies information

Pre-condition: Have access to the environment and the collection

Steps:

Given the API endpoint 'http://localhost:8400/api/company' is available

When a GET request is sent to the endpoint

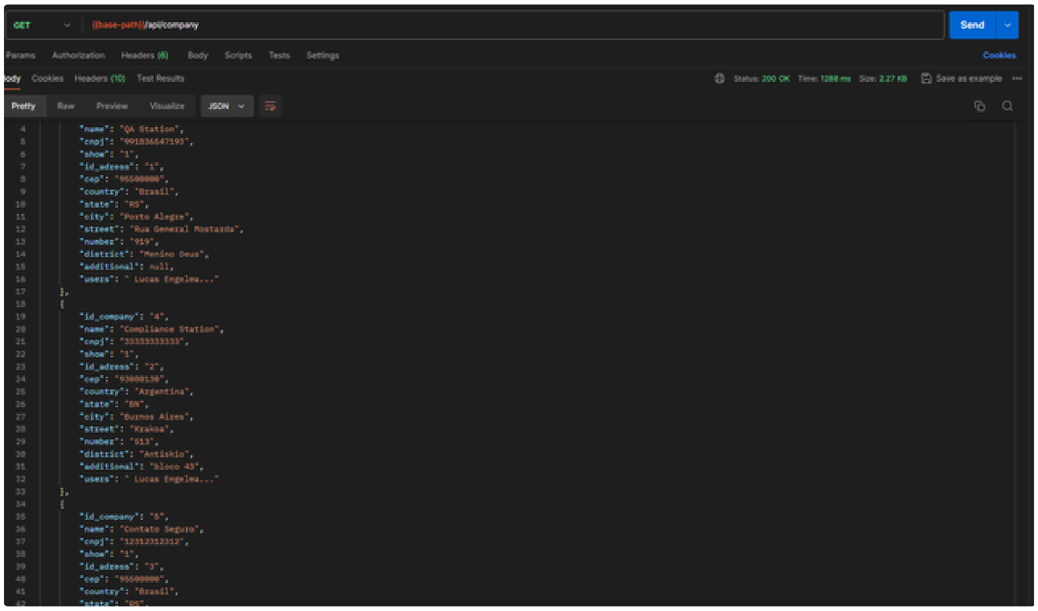
Expected Result:

Then the response status code should be 200

And the response body should contain a list of companies

Post-condition: Each company in the list should have the fields "id", "name", "cnpj", and "adress". Each "adress" should contain "cep", "country", "city", "street", "number", and "district"

Actual Result: The body response informed a list with all the companies and its fields with a 200 status code


GET
{{base-path}}/api/company
Send
Params Authorization Headers (8) Body Scripts Tests Settings
Cookies
Body Cookies Headers (10) Test Results
Status: 200 OK Time: 1288 ms Size: 2.27 KB
Save as example
Pretty Raw Preview Visualize JSON

```
        "name": "QA Station",
        "cnpj": "991836647193",
        "show": "1",
        "id_adress": "1",
        "cep": "95500000",
        "country": "Brasil",
        "state": "RS",
        "city": "Porto Alegre",
        "street": "Rua General Mostarda",
        "number": "919",
        "district": "Menino Deus",
        "additional": null,
        "users": " Lucas Engelma..."
    },
    {
        "id_company": "4",
        "name": "Compliance Station",
        "cnpj": "33333333333",
        "show": "1",
        "id_adress": "2",
        "cep": "93000130",
        "country": "Argentina",
        "state": "BN",
        "city": "Buenos Aires",
        "street": "Krakoa",
        "number": "613",
        "district": "Antiskio",
        "additional": "bloco 43",
        "users": " Lucas Engelma..."
    },
    {
        "id_company": "5",
        "name": "Contato Seguro",
        "cnpj": "12312312312",
        "show": "1",
        "id_adress": "3",
        "cep": "95500000",
        "country": "Brasil",
        "state": "RS",
```

Test Case ID: TC0036

Title: Successfully view a company by ID via API

Description: Validate if the API can view a company information using its ID

Pre-condition: Have access to the environment and the collection, have at least one company created

Steps:

Given the API endpoint 'http://localhost:8400/api/company/{id}' is available

And a company with ID "10" exists in the system

When a GET request is sent to the endpoint with the company ID "10"

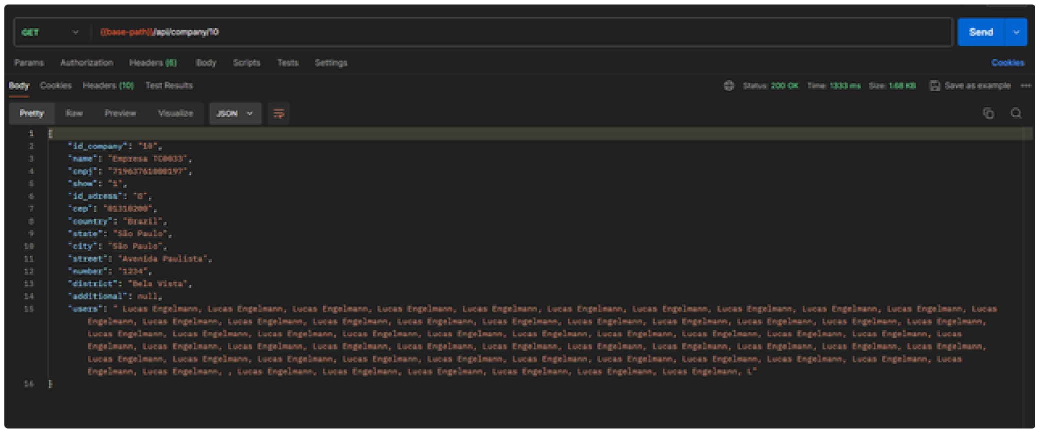
Expected Result:

Then the response status code should be 200

And the response body should contain the company

Post-condition: The body response should contain the information of the company with the fields "id", "name", "cnpj", and "adress". Each "adress" should contain "cep", "country", "city", "street", "number", and "district"

Actual Result: The body response informed the information of the company with a 200 status code


GET
{{base-path}}/api/company/10
Send
Params Authorization Headers (8) Body Scripts Tests Settings
Cookies
Body Cookies Headers (10) Test Results
Status: 200 OK Time: 1333 ms Size: 1.68 KB
Save as example
Pretty Raw Preview Visualize JSON

```
{
    "id_company": "10",
    "name": "Empresa TC0033",
    "cnpj": "71963761000197",
    "show": "1",
    "id_adress": "8",
    "cep": "01310200",
    "country": "Brazil",
    "state": "São Paulo",
    "city": "São Paulo",
    "street": "Avenida Paulista",
    "number": "1234",
    "district": "Bela Vista",
    "additional": null,
    "users": " Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas
        Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann,
        Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas
        Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann,
        Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas
        Engelmann, Lucas Engelmann, , Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, Lucas Engelmann, L"
}
```

Test Case ID: TC0037

Title: View a company by ID via API Bad Request

Description: Validate the API Bad Request return when trying to view a wrong company id

Pre-condition: Have access to the environment and the collection, at least one company created, use a invalid format id

Steps: Given the API endpoint 'http://localhost:8400/api/company/{id}' is available

And a company with ID "00" doesn't exist in the system

When a GET request is sent to the endpoint with the company ID "00"

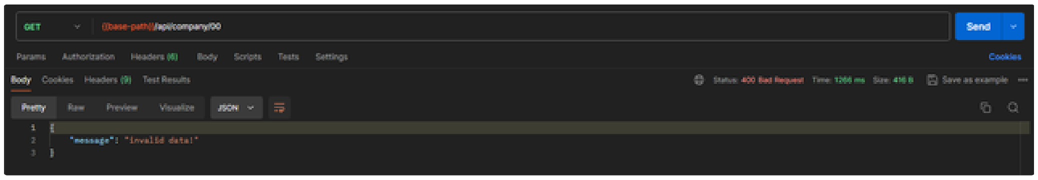
Expected Result:

Then the response status code should be 400

And the response body should contain a message explaining "{"message": "invalid data!"}"

Post-condition: it should be possible to see the message explaining the error

Actual Result: The body response was a message explaining "{"message": "invalid data!"}" with a 400 Bad Request code



```
{
    "message": "invalid data!"
}
```

Test Case ID: TC0038

Title: Successfully update a company via API

Description: Validate if the API can update the informations of a company

Pre-condition: Have access to the environment and the collection, have at least one company created

Steps:

Given the API endpoint 'http://localhost:8400/api/company/{id}/update' is available

And a company with ID "10" exists in the system

When a PATCH request is sent to the endpoint with the company ID "10" and the following JSON payload:

```
 """
 {
"name": "Atualiza Empresa TC38",
"cnpj": "99838263000131",
"adress": {
   "cep": "01310200",
   "country": "Brazil",
   "city": "São Paulo",
   "state": "São Paulo",
   "street": "Avenida Paulist",
   "number": "1400",
   "district": "Bela Vista"
   }
 }
 """
```

And the request header 'Content-Type' is set to 'application/json'

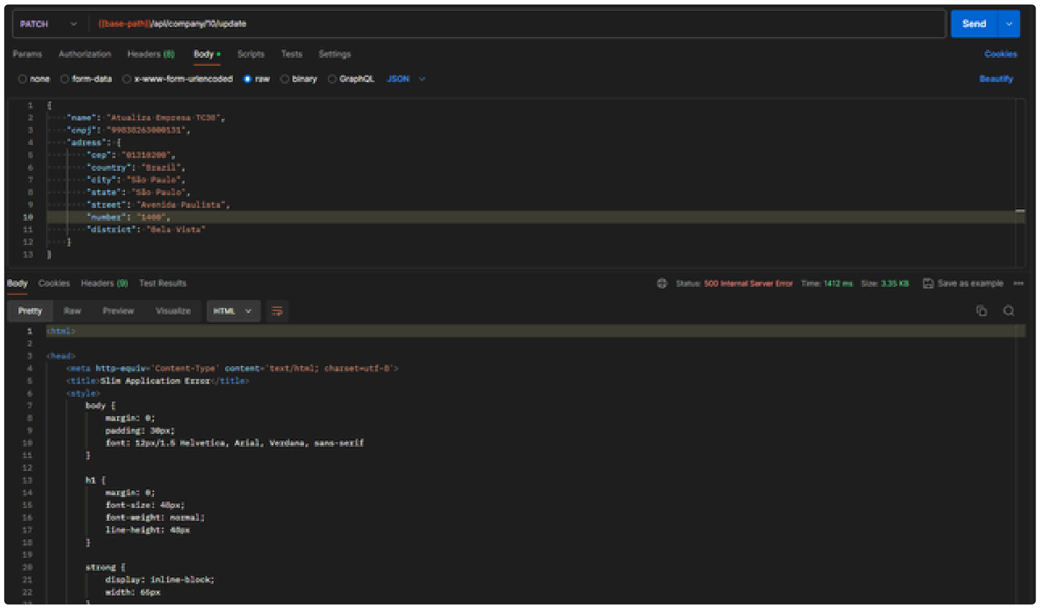
Expected Result:

Then the response status code should be 200: Updated company data

And the response body should contain the updated company's details with

Post-condition: The body response should a success message

Actual Result: Bug NCTC0038: When attempting to update a company's information, a 500 error is returned as show in



```
{
    "name": "Atualiza Empresa TC38",
    "cnpj": "99838263000131",
    "adress": {
        "cep": "01310200",
        "country": "Brazil",
        "city": "São Paulo",
        "state": "São Paulo",
        "street": "Avenida Paulista",
        "number": "1400",
        "district": "Bela Vista"
    }
}
```

Status: 500 Internal Server Error Time: 1412 ms Size: 3.35 KB

```
<html>

<head>
    <meta http-equiv='Content-Type' content='text/html; charset=utf-8'>
    <title>Slim Application Error</title>
    <style>
        body {
            margin: 0;
            padding: 30px;
            font: 12px/1.5 Helvetica, Arial, Verdana, sans-serif
        }

        h1 {
            margin: 0;
            font-size: 48px;
            font-weight: normal;
            line-height: 48px
        }

        strong {
            display: inline-block;
            width: 65px
```

Test Case ID: TC0039

Title: Update company via API Bad Request

Description: Validate the API Bad Request for company update

Pre-condition: Have access to the environment and the collection, have at least one company created

Steps:

Given the API endpoint 'http://localhost:8400/api/company/{id}/update' is available

And a ID "abc" is an invalid ID

When a PATCH request is sent to the endpoint with the invalid company ID "abc" and the following JSON payload:

```
 """
 {
"name": "Atualiza Empresa TC38",
"cnpj": "99838263000131",
"adress": {
  "cep": "01310200",
  "country": "Brazil",
  "city": "São Paulo",
  "state": "São Paulo",
  "street": "Avenida Paulist",
  "number": "1400",
  "district": "Bela Vista"
  }
 }
 """
```

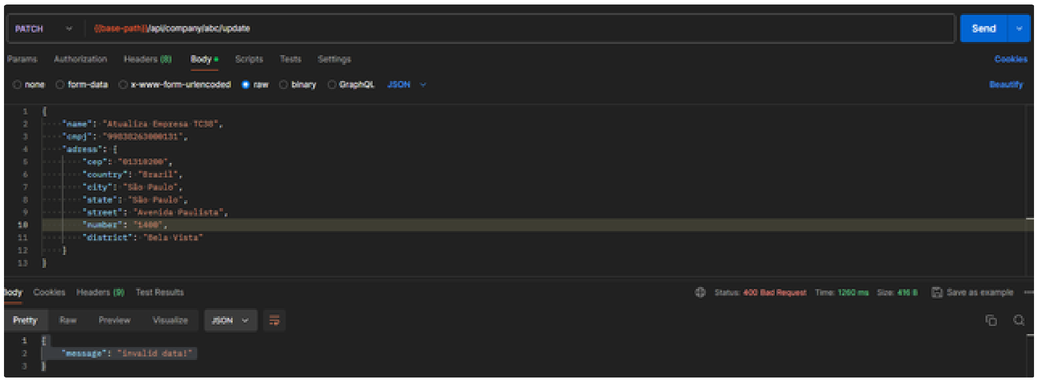
And the request header 'Content-Type' is set to 'application/json'

Expected Results:

Then the response status code should be 400: Bad Request

And the response body should contain {"message": "invalid data!"}

Actual Result: The body response was {"message": "invalid data!"} with 400 Bad Request status code



```
{{base-path}}/api/company/abc/update
```

```
{
    "name": "Atualiza Empresa TC38",
    "cnpj": "99838263000131",
    "adress": {
        "cep": "01310200",
        "country": "Brazil",
        "city": "São Paulo",
        "state": "São Paulo",
        "street": "Avenida Paulista",
        "number": "1400",
        "district": "Bela Vista"
    }
}
```

Status: 400 Bad Request Time: 1260 ms Size: 416 B

```
{
    "message": "invalid data!"
}
```

Test Case ID: TC0040

Title: Successfully delete a company via API

Description: Validate if the API can delete a company

Pre-condition: Have access to the environment and the collection, have at least one company created

Steps:

Given I have a company with ID "10"

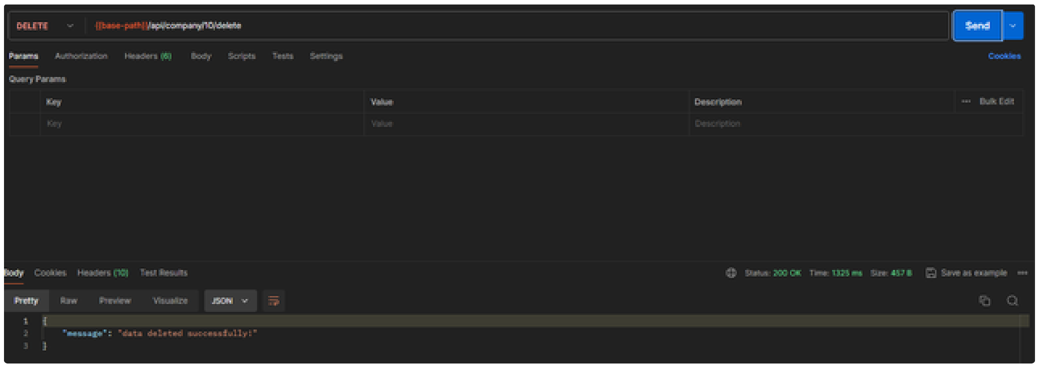
When I send a DELETE request to 'http://localhost:8400/api/company/10/delete'

Expected Results:

Then the company should be deleted successfully

And I should receive a 200 status code

Actual Result: The body response was {"message": "data deleted successfully!"} with a 200 status code



```
{{base-path}}/api/company/10/delete
```

Status: 200 OK Time: 1325 ms Size: 457 B

```
{
    "message": "data deleted successfully!"
}
```

Test Case ID: TC0041

Title: Delete company via API Bad Request

Description: Validate the API bad request for delete company

Pre-condition: Have access to the environment and the collection, at least one company created, use a invalid format id

Steps:

Given I have an invalid company ID 'abc'

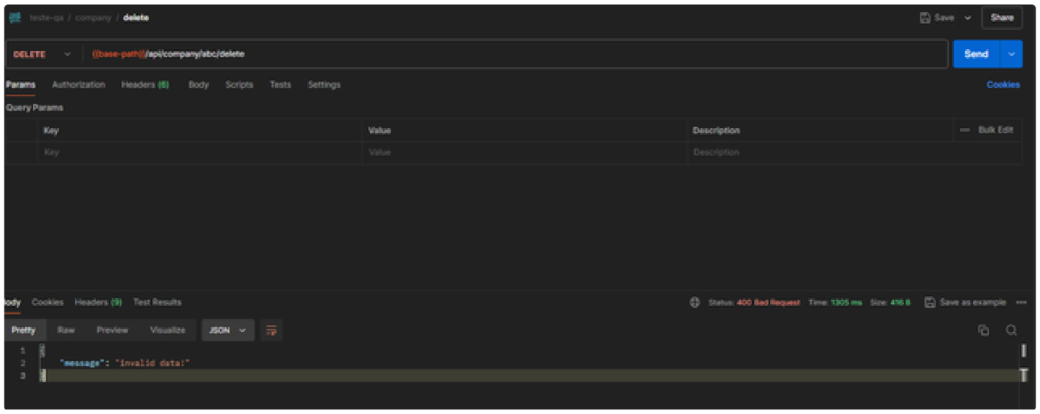
When I send a DELETE request to 'http://localhost:8400/api/company/abc/delete'

Expected Results:

Then I should receive a 400 status code

And the response should indicate an invalid data

Actual Result: The body response was {"message": "invalid data!"} with 400 Bad Request status code



DELETE {{base-path}}/api/company/abc/delete

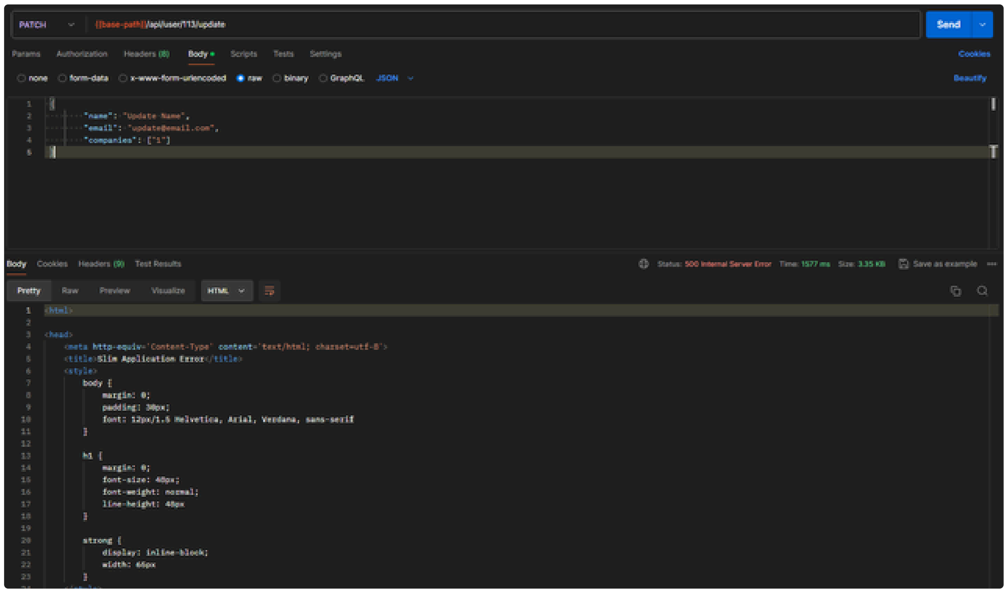
Status: 400 Bad Request Time: 1305 ms Size: 416 B

```
{
    "message": "invalid data!"
}
```

7- Non-conformities

In this section, the bugs found in the application are listed, along with some evidence collected during the execution of the test cases reported above.

- Bug NCTC0007- The scenario couldn't be automated due to the absence of the 'Telefone' field as a mandatory requirement in the code, despite being documented as mandatory. When attempting to create a new user without providing the phone number, it allows the creation to proceed.
- Bug NCTC0014 - The "Editar Usuário" button does not perform any action after interacting with it.
- Bug NCTC0023 - It was not possible to automate the scenario due to defect NCCT0023. When the trash can button is clicked to delete the user, it displays a success pop-up message but still keeps the user in the list of existing users.
- Bug NCTC0029: When attempting to update a user's information, a 500 error is returned as show in



PATCH {{base-path}}/api/user/113/update

none form-data x-www-form-urlencoded [✓ raw] binary GraphQL JSON

```
{
    "name": "Update Name",
    "email": "update@email.com",
    "companies": ["1"]
}
```

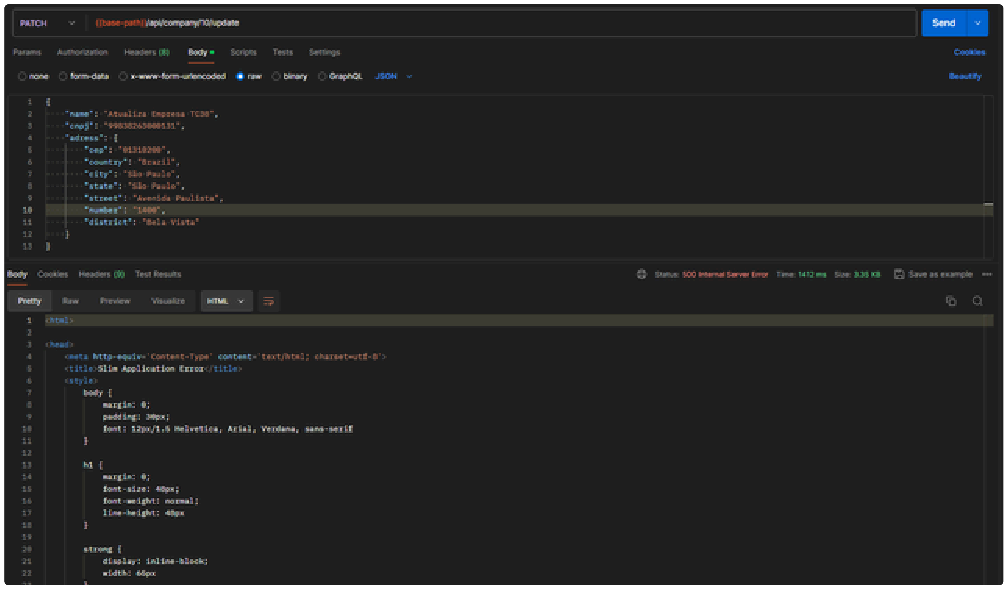
Status: 500 Internal Server Error Time: 1577 ms Size: 3.35 KB

```
<html>

<head>
    <meta http-equiv='Content-Type' content='text/html; charset=utf-8'>
    <title>Slim Application Error</title>
    <style>
        body {
            margin: 0;
            padding: 30px;
            font: 12px/1.5 Helvetica, Arial, Verdana, sans-serif
        }

        h1 {
            margin: 0;
            font-size: 48px;
            font-weight: normal;
            line-height: 48px
        }

        strong {
            display: inline-block;
            width: 65px
        }
```

```
curl --location --request PATCH 'http://localhost:8400/api/user/113/update' \
--header 'Content-Type: application/json' \
--data-raw ' {
        "name": "Update Name",
        "email": "update@email.com",
        "companies": ["1"]
 }'
 Error response:
<html>
```

```
<head>
    <meta http-equiv='Content-Type' content='text/html; charset=utf-8'>
    <title>Slim Application Error</title>
    <style>
        body {
            margin: 0;
            padding: 30px;
            font: 12px/1.5 Helvetica, Arial, Verdana, sans-serif
        }
        h1 {
            margin: 0;
            font-size: 48px;
            font-weight: normal;
            line-height: 48px
        }
        strong {
            display: inline-block;
            width: 65px
        }
    </style>
</head>

<body>
    <h1>Slim Application Error</h1>
    <div>
        <p>The application could not run because of the following error:</p>
        <h2>Details</h2>
        <div><strong>Type:</strong> TypeError</div>
        <div><strong>Code:</strong> 0</div>
        <div><strong>Message:</strong> array_intersect(): Argument #1 ($array) must be of type array, null given
        <div><strong>File:</strong> /var/www/html/Classes/Util/ValidateArgs.php</div>
        <div><strong>Line:</strong> 29</div>
        <h2>Trace</h2>
        <pre>#0 /var/www/html/Classes/Util/ValidateArgs.php(29): array_intersect(NULL, Array)
#1 /var/www/html/index.php(99): ContatoSeguro\Classes\Util\ValidateArgs::validateBody('user', Array)
#2 /var/www/html/vendor/slim/slim/Slim/Handlers/Strategies/RequestResponse.php(43): {closure}(Object(Slim\Psr7\R
#3 /var/www/html/vendor/slim/slim/Slim/Routing/Route.php(384): Slim\Handlers\Strategies\RequestResponse-&gt;__in
#4 /var/www/html/vendor/slim/slim/Slim/MiddlewareDispatcher.php(81): Slim\Routing\Route-&gt;handle(Object(Slim\P
#5 /var/www/html/vendor/slim/slim/Slim/MiddlewareDispatcher.php(81): Slim\MiddlewareDispatcher-&gt;handle(Object
#6 /var/www/html/vendor/slim/slim/Slim/Routing/Route.php(341): Slim\MiddlewareDispatcher-&gt;handle(Object(Slim\
#7 /var/www/html/vendor/slim/slim/Slim/Routing/RouteRunner.php(84): Slim\Routing\Route-&gt;run(Object(Slim\Psr7\
#8 /var/www/html/vendor/slim/slim/Slim/Middleware/ErrorMiddleware.php(107): Slim\Routing\RouteRunner-&gt;handle(
#9 /var/www/html/vendor/slim/slim/Slim/MiddlewareDispatcher.php(147): Slim\Middleware\ErrorMiddleware-&gt;proces
#10 /var/www/html/index.php(23): Psr\Http\Server\RequestHandlerInterface@anonymous-&gt;handle(Object(Slim\Psr7\R
#11 /var/www/html/vendor/slim/slim/Slim/MiddlewareDispatcher.php(313): {closure}(Object(Slim\Psr7\Request), Obje
#12 /var/www/html/vendor/slim/slim/Slim/MiddlewareDispatcher.php(81): Psr\Http\Server\RequestHandlerInterface@an
#13 /var/www/html/vendor/slim/slim/Slim/App.php(215): Slim\MiddlewareDispatcher-&gt;handle(Object(Slim\Psr7\Requ
#14 /var/www/html/vendor/slim/slim/Slim/App.php(199): Slim\App-&gt;handle(Object(Slim\Psr7\Request))
#15 /var/www/html/index.php(228): Slim\App-&gt;run()
#16 {main}</pre>
    </div> <a href="#" onClick="window.history.go(-1)">Go Back</a>
</body>

</html>
```

- Bug NCTC0038: When attempting to update a company's information, a 500 error is returned as show in



```
{{base-path}}/api/company/10/update
```

```
{
    "name": "Atualiza Empresa TC38",
    "cnpj": "99838263000131",
    "adress": {
        "cep": "01310200",
        "country": "Brazil",
        "city": "São Paulo",
        "state": "São Paulo",
        "street": "Avenida Paulista",
        "number": "1400",
        "district": "Bela Vista"
    }
}
```

Status: 500 Internal Server Error Time: 1412 ms Size: 3.35 KB

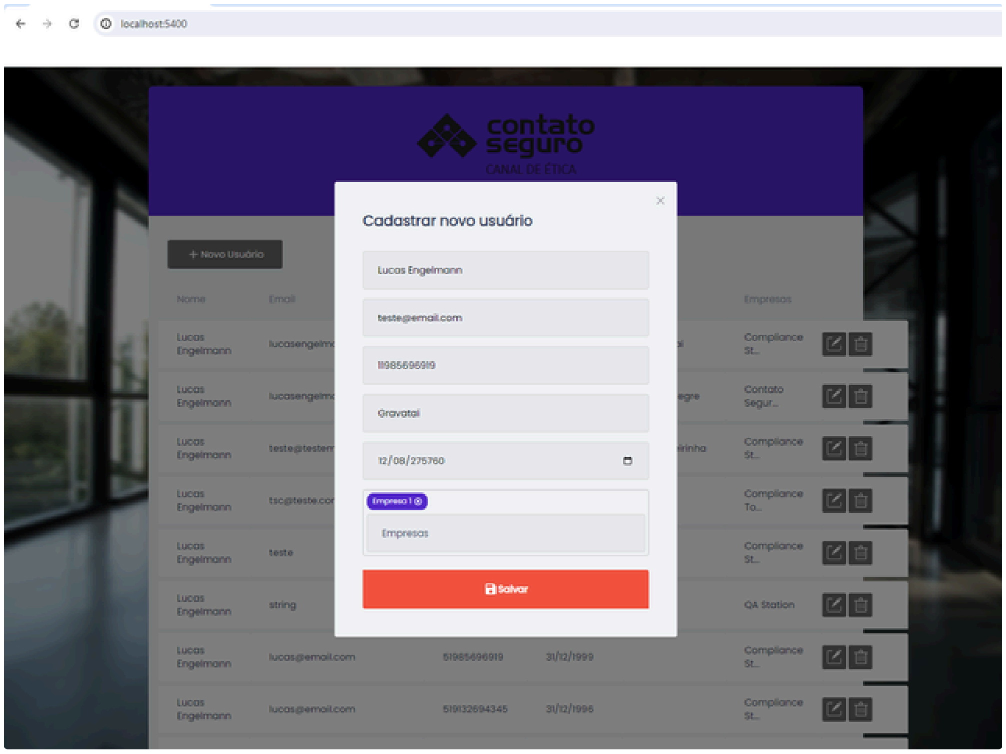
```
<html>

<head>
    <meta http-equiv='Content-Type' content='text/html; charset=utf-8'>
    <title>Slim Application Error</title>
    <style>
        body {
            margin: 0;
            padding: 30px;
            font: 12px/1.5 Helvetica, Arial, Verdana, sans-serif
        }

        h1 {
            margin: 0;
            font-size: 48px;
            font-weight: normal;
            line-height: 48px
        }

        strong {
            display: inline-block;
            width: 65px
```

```
curl --location --request PATCH 'http://localhost:8400/api/company/10/update' \
--header 'Content-Type: application/json' \
--data '{
    "name": "Atualiza Empresa TC38",
    "cnpj": "99838263000131",
    "adress": {
        "cep": "01310200",
        "country": "Brazil",
        "city": "São Paulo",
        "state": "São Paulo",
        "street": "Avenida Paulista",
        "number": "1400",
        "district": "Bela Vista"
    }
}'
html>

<head>
    <meta http-equiv='Content-Type' content='text/html; charset=utf-8'>
    <title>Slim Application Error</title>
    <style>
        body {
            margin: 0;
            padding: 30px;
            font: 12px/1.5 Helvetica, Arial, Verdana, sans-serif
        }
h1 {
            margin: 0;
            font-size: 48px;
            font-weight: normal;
            line-height: 48px
        }
strong {
            display: inline-block;
            width: 65px
        }
    </style>
</head>
```

```

<body>
    <h1>Slim Application Error</h1>
    <div>
        <p>The application could not run because of the following error:</p>
        <h2>Details</h2>
        <div><strong>Type:</strong> TypeError</div>
        <div><strong>Code:</strong> 0</div>
        <div><strong>Message:</strong> array_intersect(): Argument #1 ($array) must be of type array, null give
        <div><strong>File:</strong> /var/www/html/Classes/Util/ValidateArgs.php</div>
        <div><strong>Line:</strong> 29</div>
        <h2>Trace</h2>
        <pre>#0 /var/www/html/Classes/Util/ValidateArgs.php(29): array_intersect(NULL, Array)
#1 /var/www/html/index.php(187): ContatoSeguro\Classes\Util\ValidateArgs::validateBody('company', Array)
#2 /var/www/html/vendor/slim/slim/Slim/Handlers/Strategies/RequestResponse.php(43): {closure}(Object(Slim\Psr7\
#3 /var/www/html/vendor/slim/slim/Slim/Routing/Route.php(384): Slim\Handlers\Strategies\RequestResponse-&gt;__i
#4 /var/www/html/vendor/slim/slim/Slim/MiddlewareDispatcher.php(81): Slim\Routing\Route-&gt;handle(Object(Slim\
#5 /var/www/html/vendor/slim/slim/Slim/MiddlewareDispatcher.php(81): Slim\MiddlewareDispatcher-&gt;handle(Objec
#6 /var/www/html/vendor/slim/slim/Slim/Routing/Route.php(341): Slim\MiddlewareDispatcher-&gt;handle(Object(Slim
#7 /var/www/html/vendor/slim/slim/Slim/Routing/RouteRunner.php(84): Slim\Routing\Route-&gt;run(Object(Slim\Psr7
#8 /var/www/html/vendor/slim/slim/Slim/Middleware/ErrorMiddleware.php(107): Slim\Routing\RouteRunner-&gt;handle
#9 /var/www/html/vendor/slim/slim/Slim/MiddlewareDispatcher.php(147): Slim\Middleware\ErrorMiddleware-&gt;proce
#10 /var/www/html/index.php(23): Psr\Http\Server\RequestHandlerInterface@anonymous-&gt;handle(Object(Slim\Psr7\
#11 /var/www/html/vendor/slim/slim/Slim/MiddlewareDispatcher.php(313): {closure}(Object(Slim\Psr7\Request), Obj
#12 /var/www/html/vendor/slim/slim/Slim/MiddlewareDispatcher.php(81): Psr\Http\Server\RequestHandlerInterface@a
#13 /var/www/html/vendor/slim/slim/Slim/App.php(215): Slim\MiddlewareDispatcher-&gt;handle(Object(Slim\Psr7\Req
#14 /var/www/html/vendor/slim/slim/Slim/App.php(199): Slim\App-&gt;handle(Object(Slim\Psr7\Request))
#15 /var/www/html/index.php(228): Slim\App-&gt;run()
#16 {main}</pre>
    </div> <a href="#" onClick="window.history.go(-1)">Go Back</a>
</body>

</html>curl --location --request PATCH 'http://localhost:8400/api/company/10/update' \
--header 'Content-Type: application/json' \
--data '{
    "name": "Atualiza Empresa TC38",
    "cnpj": "99838263000131",
    "adress": {
        "cep": "01310200",
        "country": "Brazil",
        "city": "São Paulo",
        "state": "São Paulo",
        "street": "Avenida Paulista",
        "number": "1400",
        "district": "Bela Vista"
    }
}'
html>

<head>
    <meta http-equiv='Content-Type' content='text/html; charset=utf-8'>
    <title>Slim Application Error</title>
    <style>
        body {
            margin: 0;
            padding: 30px;
            font: 12px/1.5 Helvetica, Arial, Verdana, sans-serif
        }
```

```
h1 {
            margin: 0;
            font-size: 48px;
            font-weight: normal;
            line-height: 48px
        }
strong {
            display: inline-block;
            width: 65px
        }
    </style>
</head>

<body>
    <h1>Slim Application Error</h1>
    <div>
        <p>The application could not run because of the following error:</p>
        <h2>Details</h2>
        <div><strong>Type:</strong> TypeError</div>
        <div><strong>Code:</strong> 0</div>
        <div><strong>Message:</strong> array_intersect(): Argument #1 ($array) must be of type array, null give
        <div><strong>File:</strong> /var/www/html/Classes/Util/ValidateArgs.php</div>
        <div><strong>Line:</strong> 29</div>
        <h2>Trace</h2>
        <pre>#0 /var/www/html/Classes/Util/ValidateArgs.php(29): array_intersect(NULL, Array)
#1 /var/www/html/index.php(187): ContatoSeguro\Classes\Util\ValidateArgs::validateBody('company', Array)
#2 /var/www/html/vendor/slim/slim/Slim/Handlers/Strategies/RequestResponse.php(43): {closure}(Object(Slim\Psr7\
#3 /var/www/html/vendor/slim/slim/Slim/Routing/Route.php(384): Slim\Handlers\Strategies\RequestResponse-&gt;__i
#4 /var/www/html/vendor/slim/slim/Slim/MiddlewareDispatcher.php(81): Slim\Routing\Route-&gt;handle(Object(Slim\
#5 /var/www/html/vendor/slim/slim/Slim/MiddlewareDispatcher.php(81): Slim\MiddlewareDispatcher-&gt;handle(Objec
#6 /var/www/html/vendor/slim/slim/Slim/Routing/Route.php(341): Slim\MiddlewareDispatcher-&gt;handle(Object(Slim
#7 /var/www/html/vendor/slim/slim/Slim/Routing/RouteRunner.php(84): Slim\Routing\Route-&gt;run(Object(Slim\Psr7
#8 /var/www/html/vendor/slim/slim/Slim/Middleware/ErrorMiddleware.php(107): Slim\Routing\RouteRunner-&gt;handle
#9 /var/www/html/vendor/slim/slim/Slim/MiddlewareDispatcher.php(147): Slim\Middleware\ErrorMiddleware-&gt;proce
#10 /var/www/html/index.php(23): Psr\Http\Server\RequestHandlerInterface@anonymous-&gt;handle(Object(Slim\Psr7\
#11 /var/www/html/vendor/slim/slim/Slim/MiddlewareDispatcher.php(313): {closure}(Object(Slim\Psr7\Request), Obj
#12 /var/www/html/vendor/slim/slim/Slim/MiddlewareDispatcher.php(81): Psr\Http\Server\RequestHandlerInterface@a
#13 /var/www/html/vendor/slim/slim/Slim/App.php(215): Slim\MiddlewareDispatcher-&gt;handle(Object(Slim\Psr7\Req
#14 /var/www/html/vendor/slim/slim/Slim/App.php(199): Slim\App-&gt;handle(Object(Slim\Psr7\Request))
#15 /var/www/html/index.php(228): Slim\App-&gt;run()
#16 {main}</pre>
    </div> <a href="#" onClick="window.history.go(-1)">Go Back</a>
</body>

</html>
```

- Bug NCFE0001: After registering a user through the front-end using a date with a year consisting of 6 digits


localhost:5400

Cadastrar novo usuário

Lucas Engelmann

teste@email.com

11985696919

Gravatai

12/08/275760

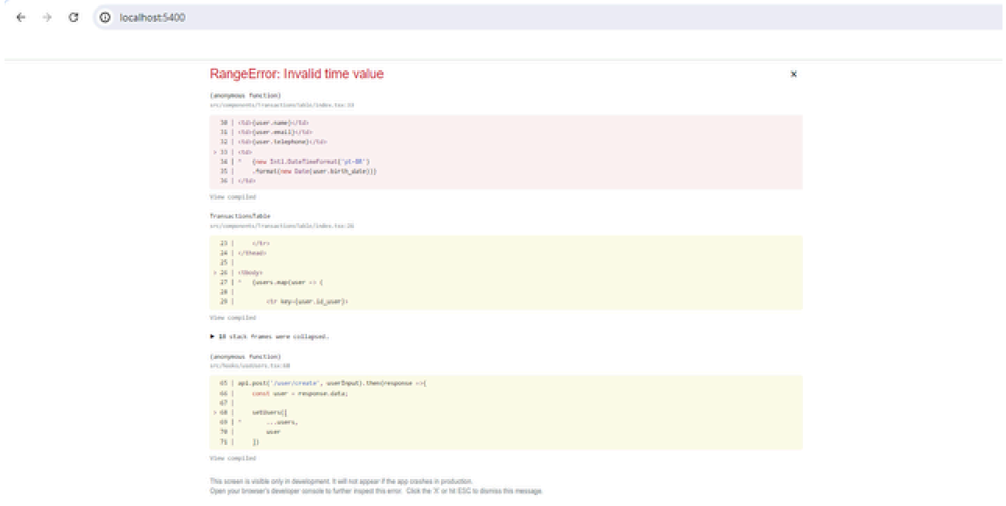
Empresa 1

Empresas

Salvar

Nome	Email			Empresas
Lucas Engelmann	lucasengelm			Compliance St...
Lucas Engelmann	lucasengelm			Contato Segur...
Lucas Engelmann	teste@testem			Compliance St...
Lucas Engelmann	tsc@teste.co			Compliance To...
Lucas Engelmann	teste			Compliance St...
Lucas Engelmann	string			QA Station
Lucas Engelmann	lucas@email.com	51985696919	31/12/1999	Compliance St...
Lucas Engelmann	lucas@email.com	519132694345	31/12/1996	Compliance St...

the system allowed the registration of the user. However, when updating the list, the system broke, displaying the following message

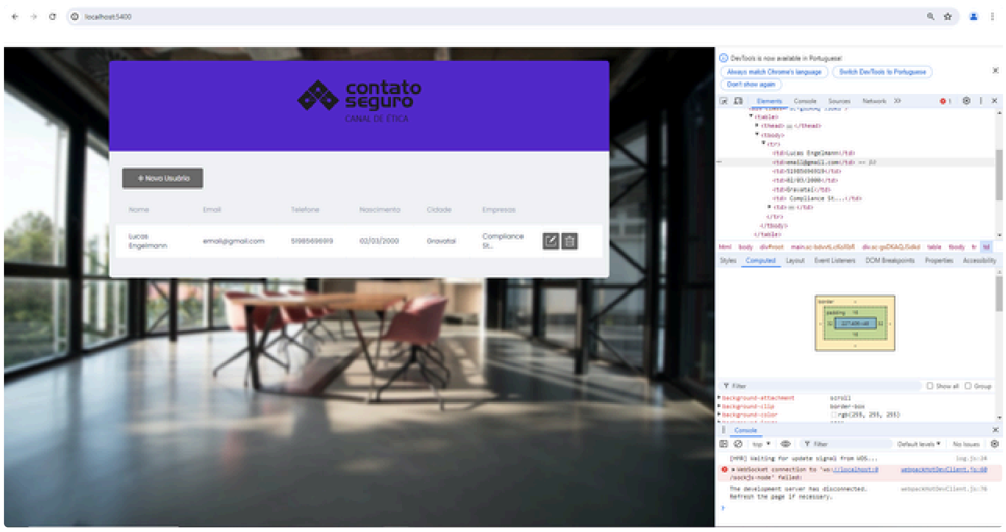

localhost:5400

```
RangeError: Invalid time value
(anonymous function)
src/components/TransactionsTable/index.tsx:33
  30 | <td>{user.name}</td>
  31 | <td>{user.email}</td>
  32 | <td>{user.telephone}</td>
> 33 | <td>
  34 | ^   {new Intl.DateTimeFormat('pt-BR')
  35 |     .format(new Date(user.birth_date))}
  36 | </td>
View compiled
TransactionsTable
src/components/TransactionsTable/index.tsx:26
  23 |     </tr>
  24 | </thead>
  25 |
> 26 | <tbody>
  27 | ^   {users.map(user => (
  28 |
  29 |         <tr key={user.id_user}>
View compiled
▶ 18 stack frames were collapsed.
(anonymous function)
src/hooks/useUsers.tsx:68
  65 | api.post('/user/create', userInput).then(response =>{
  66 |     const user = response.data;
  67 |
> 68 |     setUsers([
  69 | ^       ...users,
  70 |         user
  71 |     ])
View compiled
This screen is visible only in development. It will not appear if the app crashes in production.
Open your browser's developer console to further inspect this error.  Click the 'X' or hit ESC to dismiss this message.
```

```
RangeError: Invalid time value
(anonymous function)
src/components/TransactionsTable/index.tsx:33
  30 | <td>{user.name}</td>
  31 | <td>{user.email}</td>
  32 | <td>{user.telephone}</td>
> 33 | <td>
     | ^  34 |     {new Intl.DateTimeFormat('pt-BR')
  35 |     .format(new Date(user.birth_date))}
  36 | </td>
```

Bug NCFE0002: Layout bug - after registering a user, if the email field contain too many characters, the layout of the home page exceeds the size of the list body.

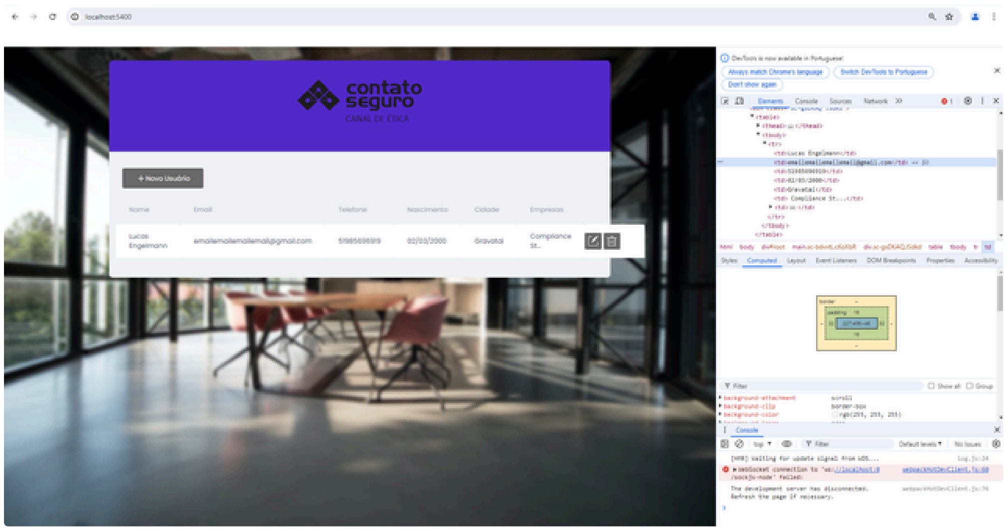
Here is an example of the layout while using a shorter email:



Nome	Email	Telefone	Nascimento	Cidade	Empresas
Lucas Engelmann	email@gmail.com	51985696919	02/03/2000	Gravataí	Compliance St...

```
[HMR] Waiting for update signal from WDS...                log.js:24
▸ WebSocket connection to 'ws://localhost:8      webpackHotDevClient.js:60
/sockjs-node' failed:
The development server has disconnected.         webpackHotDevClient.js:76
Refresh the page if necessary.
```

Here is an example of the layout while using a larger email:



Nome	Email	Telefone	Nascimento	Cidade	Empresas
Lucas Engelmann	emailemailemailemail@gmail.com	51985696919	02/03/2000	Gravataí	Compliance St...

```
[HMR] Waiting for update signal from WDS...                log.js:24
▸ WebSocket connection to 'ws://localhost:8      webpackHotDevClient.js:60
/sockjs-node' failed:
The development server has disconnected.         webpackHotDevClient.js:76
Refresh the page if necessary.
```

8- Improvements

This section describes potential improvements identified in the analysis of the front-end and back-end, along with requests for corrections of the non-conformities listed in Section 7 - Non-conformities.

Front-end:

- Adding IDs to the inputs used in the front-end to facilitate element selection in Cypress is recommended. Relying solely on placeholders may not be ideal, especially in applications with multiple identical buttons. For instance, the "Save New User" button does not have an assigned ID, necessitating selection based on the button text.
- System requirement/Bussiness rule: the system accepts duplicate values for mandatory fields in the CRUD (receives string and lacks content validation). Frontend does not indicate backend error. It would be beneficial to validate previously created users with mandatory fields, as it doesn't make sense to create more than one user with the same email and/or phone number, as this would indicate the same person in the registration.

Back-end:

- In the documentation (sent readme.md), it was identified that in the create user JSON, the email field contains a hyphen (-). However, in the JSON, the code expects it without a hyphen. The same was identified in patch user.
- In then documentation (sent readme.md), it was identified that in the create company JSON, the street field is wrong. It was sent as "street_location", when it is just "street".
- The API endpoint get company currently returns all data within a single object. An enhancement would involve restructuring it to include a nested sub-object for address, thereby improving clarity and delineation of each field's purpose.
- Error handling for bad requests currently lacks specificity. As an example, when sending a request without the name field, the API simply responds with a generic bad request error. Enhancing this to provide more descriptive and actionable error messages would facilitate better debugging and troubleshooting, thereby improving overall system reliability.
- Business Rule: The system currently accepts duplicate values for mandatory fields in the CRUD operations. It accepts strings without content validation, which permits multiple registrations of the same user.
- When deleting a company, it no longer appears in getAll, but appears in getById with the show = 0 field.
  In contrast, the user continues to appear in getAll.