ContactFormComponent

## Framework

Angular

# Goal

Use TDD to build a simple contact form that handles user input, validates required fields, and submits data via a callback function.

# Instructions

1. Write a test that uses TestBed to create the component and asserts the form renders with two fields.
2. Test initial form state, all fields should be invalid and untouched.
3. Write a test that enters valid input values and checks that the form becomes valid.
4. Simulate a form submission with empty fields and expect an error message to appear.
5. Simulate a valid form submission and assert that a mocked onSubmit() handler or EventEmitter is triggered with the form values.
6. Refactor form logic into a dedicated method and clean up validation after passing tests.

# Tech & Tools

* Angular Reactive Forms
* Jest + Angular Testing Utilities
* ComponentFixture, fixture.detectChanges(), nativeElement.querySelector, FormBuilder

# What to Test

* Form renders with name and email input fields
* Empty fields trigger validation errors
* Valid input enables form submission
* Submission emits expected values via output or handler