NavigationMenuComponent

## Framework

Angular

# Goal

Test routing behaviour by simulating navigation and verifying that the component renders the appropriate content and calls routing methods when required.

# Instructions

1. Create a NavMenuComponent that renders links using Angular’s routerLink or manually calls router.navigateByUrl(...).
2. In the test, use RouterTestingModule and provide a mocked or spied version of the Router.
3. Write a test that simulates a button click or link interaction and asserts that the correct navigation method is called.
4. Use jest.spyOn() on router.navigateByUrl() and verify it was called with the expected path.
5. Optionally test conditional rendering based on the current route (e.g. active tab, hidden sections).
6. Use fixture.detectChanges() to reflect route-based changes in the DOM.

# Tech & Tools

* Angular RouterTestingModule
* Jest: jest.spyOn(), toHaveBeenCalledWith()
* Angular TestBed + ComponentFixture

# What to Test

* Clicking a nav item calls router navigation with correct URL
* Navigation UI reflects route changes
* Component updates or shows content based on route logic
* No real routing or redirects happen in test