

Test Components with Templates and Child Components

1. We need to test component is instantiated along with its template. Once instantiated, writing a basic test to check if integration testing is working correctly.

```
import { TestBed, ComponentFixture } from "@angular/core/testing";
import { HeroComponent } from "../hero.component";
import { NO_ERRORS_SCHEMA } from "@angular/core";

describe('HeroComponent (shallow tests)', () => {
  let fixture: ComponentFixture<HeroComponent>;

  beforeEach(() => {
    TestBed.configureTestingModule({
      declarations: [HeroComponent],
      schemas: [NO_ERRORS_SCHEMA]
    });
    fixture = TestBed.createComponent(HeroComponent);
  });

  it('should have the correct hero', () => {
    fixture.componentInstance.hero = { id: 1, name: 'SuperDude', strength: 3};

    expect(fixture.componentInstance.hero.name).toEqual('SuperDude');
  })
})
```

2. We need to test the template of the component is displayed with hero id & hero name.

```
it('should render the hero name in an anchor tag', () => {
  fixture.componentInstance.hero = { id: 1, name: 'SuperDude', strength: 3};
  fixture.detectChanges();

  expect(fixture.nativeElement.querySelector('a').textContent).toContain('SuperDude');
})
```