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Angular Testing

3 - Component Tests Basics

End-to-End (E2E) Tests

**Integration &
Component Tests**

Unit Tests



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Test Specs



Application Code



JSDom

@angular/testing



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TestBed



TestModule

```
const fixture = TestBed.configureTestingModule({  
  declarations: [RequestInfoComponent],  
  imports: [ReactiveFormsModule],  
  providers: [{ provide: AddressLookuper, useValue: null }]  
}).createComponent(RequestInfoComponent);  
  
const component = fixture.componentInstance;
```



Interacting with the DOM

```
fixture.detectChanges();
```

```
const button = fixture.debugElement
```

```
.query(By.css('button'))
```

```
.nativeElement as HTMLButtonElement;
```

```
button.click();
```



Remember
fakeAsync?



Proper Handling of Event Listeners

```
it("should trigger search on click", fakeAsync(() => {  
  fixture.detectChanges();  
  
  const button = fixture.debugElement.query(By.css("button"))  
    .nativeElement as HTMLButtonElement;  
  
  button.click();  
  
  tick();  
  
  expect(lookuper.lookup).toHaveBeenCalled();  
}));
```



Snapshot

- Serialization Feature
- Good fit when it comes to rough template checks
- No CSS
- Is not an image, e.g. png or jpg.



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Lab Time

