Student CRM Test Failures – Troubleshooting Notes

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Summary. Three Jasmine/Karma unit tests fail because the specs still assume certain components are standalone while the application now declares them in an NgModule. Adjust the TestBed setup (or revert the components back to standalone) to resolve the errors.

The Failing Specs

SPEC FILE	ERROR MESSAGE	ROOT CAUSE
<pre>src/app/students/student- list/student-list.spec.ts</pre>	"Unexpected HostComponent found in the declarations array the component is marked as standalone and can't be declared in any NgModule."	The spec registers StudentListComponent and StudentCardComponent in the imports array, assuming they are standalone. In the project they are declared inside StudentsModule, so TestBed expects them in declarations (or the module should be imported wholesale).
<pre>src/app/students/student- card/student-card.spec.ts</pre>	"Unexpected directive StudentCardComponent2 imported by the module DynamicTestModule.	Same mismatch: the spec imports the component as if it were standalone, but the app declares it in an NgModule. Karma

SPEC FILE	ERROR MESSAGE	ROOT CAUSE
	Please add an @NgModule annotation."	interprets the class as a directive without module metadata and throws.
student-list.spec.ts (secondary issue)	Missing closing }); for the first it block.	Not the current failure, but the suite will break once the module issue is fixed, so add the closing brace.

Why It Happened

The application moved its student components into StudentsModule (src/app/students/students-module.ts) with standalone: false. Unit tests, however, were written back when these components were standalone. In Angular 15+, standalone components go into the imports array; NgModule-declared components belong in declarations. Mixing the two signals yields the runtime errors you observed.

How to Fix It

- 1. Update the TestBed setup to match module usage.
 - Option A: move the components from imports to declarations and add
 CommonModule / FormsModule as needed.
 - Option B: import StudentsModule directly so TestBed reuses the production declarations.
- 2. **Or revert the components to standalone.** If you set standalone: true again and adjust the app module accordingly, the existing tests will work without changes. (This trades classroom goals for compatibility.)
- 3. **Close the open test block.** Add the missing }); after the first it in student-list.spec.ts so the second test executes.

Suggested Classroom Talking Points

Contrast TestBed configuration for standalone components vs. NgModule-declared ones.

- Show how shared modules (like StudentsModule) can simplify test setup.
- Discuss keeping specs in sync with refactors to avoid brittle tests.

Once you align the test configuration with the module structure, rerun ng test to confirm all specs pass.