



APEX TESTING

Apex testing is a practice that enables you to write and execute tests for your Apex classes and triggers in Salesforce. It also helps you decide whether your apex code meets the quality standards.

APEX TEST CLASS - BEST PRACTICES

- Single action: Ensures that a single method of code is producing specified results.
- Bulk actions: Ensures that your code is working properly and doesn't exceed limits when run against larger numbers of records.
- Positive behavior: Verifies that code is fulfilling set expectations.
- **Negative behavior:** Tests negative cases to ensure that the code does not create unintended consequences and also makes certain that error messages are accurate to avoid likely failures.
- User Permissions and Access: Ensures how your application or feature will perform when a
 user with restricted access tries to access it.

APEX TESTING LEVELS IN SALESFORCE

There are mainly four Apex testing levels in Salesforce:

- 1. NoTestRun: If this option is selected, no tests will be executed.
- 2. RunSpecifiedTests: If this option is selected, minimum code coverage should be 75%.
- **3. RunLocalTests:** If this option is selected, all tests will be run except for originated from installed managed packages.
- **4. RunAllTestsInOrg:** If this option is selected, all tests will be run, including those in managed packages.
- Test levels can be specified during the promotion as well as deployment in Copado.

SETTING UP APEX CODE COVERAGE

You can define Apex code coverage in the Environment record as well as in User Story. Let's see how.

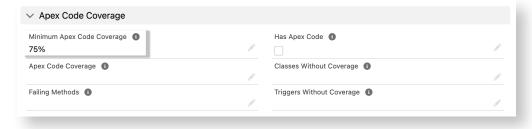
In Environment record:

- 1. Go to an Environment record.
- 2. Click on Edit.
- 3. Specify a value in the **Minimum Apex Test Coverage** field.
- 4. Click on Save.



In User Story:

- 1. Open a user story and scroll down to the Apex Code Coverage section.
- 2. Add the desired value to the Minimum Apex Code Coverage field.
- 3. Click on Save.



HOW TO EXECUTE THE APEX TEST?

- Click on Manage Apex Tests from the user story dropdown.
- Select Run Apex Tests.
- · Check Apex test result.

If you only want to run the additional tests classes and do not want to commit and deploy the same, choose the **Add Test Classes** option from the *User Story Selections* section.

STEPS TO SCHEDULE AN APEX TEST

- 1. Navigate to the relevant **Credential** record.
- 2. Click on Edit.
- 3. Select the desired **Test Frequency**.
- 4. Click on Save.



