Triggers and Order of Execution

1. Loads the original
record from the database or initializes the record for an upsert statement.

2. Loads the new record
field values from the request and overwrites the old values.

If the request came from a standard UI edit page, Salesforce runs **system validation** to check
the record for:

Compliance with
layout-specific rules

Required values at the
layout level and field-definition level

Valid field formats

Maximum field length

Salesforce doesn't perform system validation in this step
when the request comes from other sources, such as an Apex application
or a SOAP API call.

Salesforce runs user-defined validation rules if
multiline items were created, such as quote line items and opportunity line
items.

3. Executes **all before triggers** .

4. Runs most **system validation** steps again,
such as verifying that all required fields have a non- null value, and runs any user-defined validation rules. The only
system validation that Salesforce doesn't run a second time (when the
request comes from a standard UI edit page) is the enforcement of
layout-specific rules.

5. **Executes duplicate rules** . If the duplicate rule identifies the record as
a duplicate and uses the block action, the record is not saved and no further
steps, such as after triggers and workflow rules, are taken.

6. **Saves** the record to the database, but doesn't commit yet.

7. Executes **all after triggers** .

8. Executes **assignment rules** .

9. Executes **auto-response rules** .

10. Executes **workflow rules** .

11. If there are **workflow field updates** , updates
the record again.

12. If workflow field
updates introduced new duplicate field values, executes duplicate rules again.

13. If the record was
updated with workflow field updates, **fires before update triggers and after update triggers one more time (and only one more
time), in addition to standard validations. Custom validation rules are not run
again** .

14. Executes processes.

Processes are currently available through a
private beta program. For information on enabling this feature in your
organization, contact Salesforce.

If there are workflow flow triggers,
executes the flows.

Flow trigger workflow actions, formerly
available in a pilot program, have been superseded by the Process Builder.
Organizations that are using flow trigger workflow actions may continue to
create and edit them, but flow trigger workflow actions aren’t available for
new organizations. For information on enabling the Process Builder (beta)
in your organization, contact Salesforce.

15. Executes **escalation rules** .

16. Executes **entitlement rules** .

17. If the record contains **a roll-up summary field** or is
part of a cross-object workflow, performs calculations and updates the roll-up
summary field in the parent record. Parent record goes through save procedure.

18. If the parent record is
updated, and a grandparent record contains a roll-up summary field or is part
of a **cross-object workflow** ,
performs calculations and updates the roll-up summary field in the grandparent
record. Grandparent record goes through save procedure.

19. Executes **Criteria Based Sharing evaluation** .

20. Commits all **DML operations to the database** .

21. Executes **post-commit logic, such as sending email** .