

## □ List of Controller Hooks

Method Name	Description	Insert	Save	Submit	Cancel	after submit
before_insert	called before a document is prepared for insertion.	X				
before_naming	called before the name property of the document is set.	X				
autoname	If defined in the controller, used to set name property of document.	X				
before_validate	called before validation, use this for auto setting missing values.	X	X	X		
validate	Use this method to throw any validation errors and prevent the document from saving.	X	X	X		
before_save	called before the document is saved.	X	X			
before_submit	called before the document is submitted.	X		X		
before_cancel	called before the document is cancelled.				X	
before_update_after_submit	called when doc fields are updated on submitted document.					X
db_insert	This method inserts document in database, do not override this unless you're working on virtual DocType.	X				
after_insert	called after the document is inserted into the database.	X				
db_update	This method updates document in database, do not override this unless you're working on virtual DocType.		X	X	X	X
on_update	called when values of an existing document is updated.	X	X	X		
on_submit	called when a document is submitted.			X		
on_cancel	called when a submitted document is cancelled.				X	
on_update_after_submit	called <i>when</i> a submitted document values are updated.					X
on_change	called to hen a document's values has been changed. also called when db_set is performed, so operation performed in this this method should be idempotent.	X	X	X	X	X

- Apart from doc events for typical actions, you can also hook into other actions.

Method Name	Description
before_rename	called before a document is renamed.
after_rename	called after a document is renamed.
on_trash	called when a document is being deleted.
after_delete	called after a document has been deleted.