Simulation test cases				
Phase	Module	Description	Expectation	result
Before charging	Web	Incorrect input	Show hint, halt step	As expected
		incompletely filled out	Show hint, halt step	As expected
		EVSE in use/ Not exist/Error	Halt step	As expected
		Shelly not available	Halt step	As expected
		Correctly filled in, device ready	Send request to the optimizer	As expected
		click Start directly	No Reaction	As expected
		click Stop directly	No Reaction	As expected
	Optimizer	Disconnect with the optimizer	Wait for the connection	As expected
		Connect with the Opt. Again	Connect again	As expected
		Error in the optimizer	Halt step	As expected
		Succeeded	Charge-Plan receive	As expected
	Vehicle	No car plugged in	Halt step	As expected
		Car plugged in	Charging ready	As expected
	Button (Web)	Click Start without filling in	No Reaction	As expected
		Click Stop without filling in	No Reaction	As expected
		Click Reset-Error without Error	No Reaction	As expected
		Status error, click Start	No Reaction	As expected
		Status error, click Stop	No Reaction	As expected
		Status error, Click Reset-Error	Error reset, contact the administrator	As expected
		Steps finished, status normal	Charging ready	As expected
Beginning of charging	EVSE	No car plugged in	Not allowed to start charging	As expected
		Error	Not allowed to start charging	As expected
		Status available	Charging ready	As expected
	Shelly	Error	Not allowed to start charging	As expected
		Status available	Charging ready	As expected
	Start	Has not clicked start button	Wait, initialize	As expected
		Start clicked	Adjust schedule, lock, EVSE self-test	As expected
	EVSE Selftest	Succeed in self-test	Charging ready, wait	As expected
		Self-test failed	Error, Halt step	As expected
In charging	EVSE	Error	Stop Charging	As expected
	Shelly	Error	Stop Charging	As expected
	User	Click stop button	Stop Charging	As expected
		Do not stop, resend request	Request rejected	As expected
		Stop, Send request again	Start from the top	As expected
		start again	Continue executing, no effect	As expected
	Opt.	Disconnect with the optimizer	Continue executing, no effect	As expected
		Connected with the optimizer again	Continue executing, no effect	As expected
	Calibration	Connected with the optimizer	Periodic calibration	As expected
		Disconnected with the optimizer	Continue executing, no effect	As expected
Finish charging		Schedule list is empty	Stop Charging	As expected
		Energy fully charged	Stop Charging	As expected