

# Sequence Diagram - Command Execution

Shows the flow of executing a validated command and updating device state.

Participant	Action	Result
User	Execute command	
Frontend	POST /api/execute	{"device": "...", "action": "..."}
App	Validate command	Check validity
App	new CommandExecutorVisitor()	Create visitor
CommandExecutorVisitor	visit(deviceCommand)	Execute command
CommandExecutorVisitor	getState(deviceName)	Get device state
DeviceStateManager	getState()	Return DeviceState
CommandExecutorVisitor	Update state based on action	ON/OFF/INCREASE/etc
DeviceState	setOn() / setBrightness()	Update device properties
Repository	saveCommand()	Save to history
CommandExecutorVisitor	Return ExecutionResult	Success/failure
App	Return ResponseEntity	Return execution result
Frontend	Display result	Show to user