

- [Coding ID:](#)
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Coding ID:

1. Class elevator
2. Class elevatorSystem
3. Class elevatorUI
4. Class elevatorSystemUI

CodeID	FunctionName	Function Loaction
Code1.0	init (self, id, max_floor, zmqThread)	elevator.py
Code1.1	update_destination(self)	elevator.py
Code1.2	reset(self)	elevator.py
Code1.3	add_destination(self,floor,is_external_call,pri)	elevator.py
Code1.4	resort_destination(self)	elevator.py
Code1.5	open_door(self)	elevator.py
Code1.6	close_door(self)	elevator.py
Code1.7	move(self)	elevator.py
Code2.0	init (self, num_elevators, max_floor, identity)	elevator_system.py
Code2.1	call_elevator(self)	elevator_system.py
Code2.2	select_floor(self,elevator_id,floor)	elevator_system.py
Code2.3	select_oc(self, elevator_id, op)	elevator_system.py
Code2.4	process_message(self)	elevator_system.py
Code2.5	process_event(self.)	elevator_system.py
Code3.0	init (self, elevator_id, max_floor)	elevator_UI.py
Code3.1	init_ui(self)	elevator_UI.py
Code3.2	update_position(self, car)	elevator_UI.py
Code3.3	highlight_floor_button(self, floor, highlight)	elevator_UI.py

CodeID	FunctionName	Function Loaction
Code3.4	update_state(self, state, direction)	elevator_UI.py
Code3.5	open_door(self)	elevator_UI.py
Code3.6	close_door(self)	elevator_UI.py
Code4.0	init (self, elevator_system, num_elevators, max_floor)	elevator_UI.py
Code4.1	init_ui(self)	elevator_UI.py
Code4.2	update_ui_from_system(self)	elevator_UI.py
Code4.3	highlight_call_button(self, floor,direction,highlight)	elevator_UI.py
Code4.4	create_call_handler(self,floor,direction)	elevator_UI.py
Code4.5	handle_floor_request(self, elevator_id,floor)	elevator_UI.py
Code4.6	handle_door_command(self, elevator_id, floor)	elevator_UI.py
Code4.7	update_button_highlights(self)	elevator_UI.py

Traceability Table

Requirement	Specification	CodeID	Validation
R1.1	S4.1 S4.3	C2.0	T2.0 TI1
R1.2	S4.1 S4.3	C2.0	TS2.1 TS2.2 T3.0.1
R1.3	S4.1 S4.3	C2.0 C3.0	TU2.0
R1.4	S1.1 S4.3	C1.0	T2.0 TI3
R1.5	S4.3	C4.4 C4.3 C2.1	T2.0 TI3
R2.1.1	S1.4	C4.1	T2.4 T3.0.2 T3.3 TI4
R2.1.2	S1.5	C4.1	T2.4 T3.0.2 T3.3 T3.5 TS4

Requirement	Specification	CodeID	Validation
R2.2.1	S4.2.1	C4.5	T1.1 T2.2 T3.1 TI2
R2.2.2	S4.2.1	C3.5 C3.6 C3.1 C4.6 C1.5 C1.6 C2.3	T1.3 T1.4 T2.3 T3.0.1 TI3
R2.2.3	S4.3.3	C3.1 C3.4	TS1 TS2
R2.3.1	S1.0 S1.1	C1.7	TS3
R2.3.2	S1.0 S1.2	C1.7	TI3
R2.3.3	S1.0 S1.2 S4.2.2 S4.3.3	C3.1 C3.2 C4.2	T3.0 T3.2
R2.4.1	S2.2	C2.1 C2.4 C2.5 C1.3 C1.7	TS6
R2.4.2	S4.3.3	C1.7 C4.2	TI1 T1.6
R2.4.3	S4.3	C1.0 C2.0 C3.0 C4.0 C1.7 2.2	TS2.1 TS2.2
R2.4.4	S4.2.1 S4.3.1	C3.1 C4.1 C4.2	T3.0 T3.2 T3.6
R2.4.5	S2.2	C1.1 C1.7	TI1 TI2
R2.5.1	S4.3.3	C4.2	TI2 TI4
R2.5.2	S4.2.1 S4.3.2	C4.4 C4.5 C2.1 C2.4 C2.5 C2.2 C2.3 C1.7 C1.5 C1.6	TI1
R3.1.1	S2.2	C2.1	T2.1
R3.1.2	S2.2	C2.1 C2.4 C2.5	TS5
R3.1.3	S2.1	C1.4	T1.5
R4.1	S1.1	C1.7 C1.5 C1.6	TS7 T1.6
R5.1	S1.3	C2.1 C2.4 C2.5	TI4