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# Coding ID

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Function ID	Function name	File
F1.1	def add_to_cart(self, product_idx)	VM.py
F1.2	def remove_from_cart(self, product_idx)	VM.py
F1.3	def insert_coin(self, coin)	VM.py
F1.4	def process_payment(self)	VM.py
F1.5	def refund_all(self)	VM.py
F1.6	def can_give_change(self, amount)	VM.py
F1.7	def give_change(self, amount)	VM.py
F1.8	def check_timeout(self)	VM.py
F1.9	def verify_admin(self, input_pwd)	VM.py
F1.10	def restock_product(self, product_idx)	VM.py
F1.11	def refill_coin(self, coin)	VM.py
F1.12	def withdraw_coin(self, coin)	VM.py
F2.1	def setup_user_interface(self)	UI.py
F2.2	def setup_admin_interface(self)	UI.py
F2.3	def login_admin(self)	UI.py
F2.4	def check_timeout(self)	UI.py
F2.5	def update_display(self)	UI.py
F2.6	def login_succeeded(self)	UI.py
F2.7	def login_failed(self, password)	UI.py
F2.8	def add_product_succeeded(self)	UI.py
F2.9	def add_coin_succeeded(self)	UI.py

Function ID	Function name	File
F2.10	def add_bill_succeeded(self)	UI.py
F2.11	def remove_money_succeeded(self)	UI.py
F2.12	def admin_failed(self)	UI.py
F2.13	def logout_succeeded(self)	UI.py
F2.14	def insert_money(self)	UI.py
F2.15	def return_money(self, msg)	UI.py
F2.16	def select_product_succeeded(self)	UI.py
F2.17	def select_product_failed(self)	UI.py
F2.18	def deselect_product_succeeded(self)	UI.py
F2.19	def deselect_product_failed(self)	UI.py
F2.20	def purchase(self, msg)	UI.py
F2.21	def user_failed(self)	UI.py
F2.22	def <b>init</b> (self)	UI.py

## Traceability

Requirement	Implemented by specification	Function ID	Validated by test
R1.1	S1.2	F1.1, F2.16	T1.1.1, T1.2.1, T1.2.3, T1.3.1, T_inte_15, T_sys_1, T_sys_2
R1.2	S1.2	F1.1, F2.17	T1.1.2, T1.1.3, T_inte_16, T_sys_3
R1.3	S1.3	F1.2, F2.18	T1.2.1, T1.2.3, T_inte_18
R1.4	S1.3	F1.2, F2.19	T1.2.2, T1.2.4, T_inte_19
R1.5	S1.4	F1.3, F2.14	T1.3.1, T1.3.3, T1.4.1, T1.6.3, T1.10.1, T_inte_1, T_inte_10, T_sys_1, T_sys_2, T_sys_3

Requirement	Implemented by specification	Function ID	Validated by test
R1.6	S1.4	F1.3	T1.10.2
R1.7	S1.9	F1.9, F2.6	T1.7.1, T_inte_1, T_sys_1
R1.8	S1.9	F1.9, F2.7	T1.7.2, T_inte_2
R1.9	S1.7	F1.6, F1.7	T1.5.1
R1.10	S1.5, S1.7	F1.6, F1.4, F2.20	T1.3.3, T1.5.1, T_inte_23, T_sys_2
R1.11	S1.5, S1.7	F1.6, F1.4, F2.20	T1.3.1, T1.5.1, T_inte_21, T_sys_1
R1.12	S1.5	F1.4, F2.20	T1.3.1, T1.3.2, T_inte_21, T_sys_1
R1.13	S1.10	F1.10, F2.8, F2.12	T_inte_4, T_inte_5
R1.14	S1.11	F1.11, F2.9, F2.10, F2.12	T_inte_6, T_inte_7
R1.15	S1.12	F1.12, F2.11, F2.12	T_inte_8, T_inte_9, T_sys_1
R1.16	S1.10	F1.10	T1.11.1, T_inte_4
R1.17	S1.11	F1.11	T1.8.1, T1.8.2, T_inte_6
R1.18	S1.12	F1.12	T1.9.1, T1.9.2, T_inte_8
R1.19	S2.5	F2.13	T_inte_3
R1.20	S1.6, S1.8	F1.5, F1.7, F2.15	T1.4.1, T1.4.2, T_inte_12, T_inte_13, T_sys_1, T_sys_2, T_sys_3
R1.21	S1.1	F2.2, F2.5	T2.5.1
R2.1	S2.1	F2.1	T_inte_15, T_inte_16, T_inte_17, T_inte_18, T_inte_19, T_inte_20
R2.2	S2.2	F2.22	T_inte_2

Requirement	Implemented by specification	Function ID	Validated by test
R2.3	S2.4	F2.22	T_inte_1
R2.4	S2.4	F2.6	T_inte_1
R2.5	S2.4	F2.6	T_inte_1, T_sys_4
R2.6	S2.5	F2.13	T_inte_3
R2.7	S2.5	F2.13	T_inte_3
R2.8	S2.1	F2.5	T_inte_10, T_inte_11