Software Design & Architecture Project

Screenshots of the Application Running

Group 2:

1. Hesham Sakr: hesham.m.sakr@gmail.com

2. Mihai Chindris: chindris: chindris.mihai.alexandru@gmail.com

3. Viet Ha Vu: vietha4895@gmail.com

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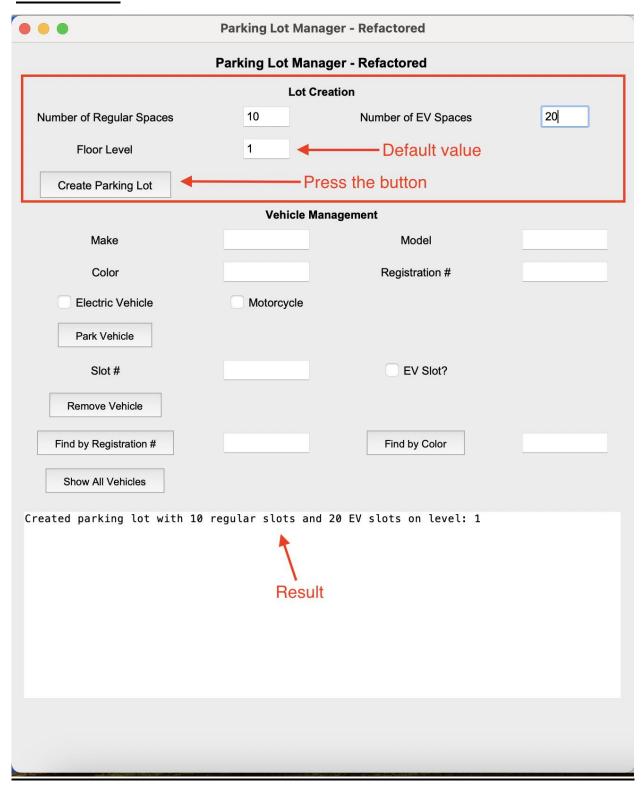
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1. <u>Interface:</u>

• • •	Parking Lot Manager - Refactored				
	Parking Lot Manager - Refactored Header				
	Lot Creation				
Number of Regular Spaces	Number of EV Spaces				
Floor Level	Lot creation				
Create Parking Lot	Lot creation				
	Vehicle Management				
Make	Model				
Color	Registration #				
Electric Vehicle	□ Motorcycle Park a new vehicle				
Park Vehicle	T and a new vernois				
Slot #	EV Slot?				
Remove Vehicle	Remove a vehicle				
Find by Registration #	Find by Color				
Show All Vehicles	Show status of all vehicles Search by Registration #/Color				
Text Field					

2. Lot creation:



3. Park vehicle:

3.1. General car:

Parking Lot Manager - Refactored						
Parking Lot Manager - Refactored						
Lot Creation						
Number of Regular Spaces	10	Number of EV Spaces	20			
Floor Level	1					
Create Parking Lot						
	Vehicle	Management				
Make	Toyota	Model	Camry			
Color	Red	Registration #	ABC123			
Electric Vehicle	Motorcycle					
Park Vehicle						
Slot #		EV Slot?				
Remove Vehicle						
Find by Registration #		Find by Color				
Show All Vehicles						
Created parking lot with 10 re	egular slots a	nd 20 EV slots on level: 1				

3.2. General motorcycle:

Parking Lot Manager - Refactored							
Parking Lot Manager - Refactored							
Lot Creation							
Number of Regular Spaces	10	Number of EV Spaces	20				
Floor Level	1						
Create Parking Lot							
	Vehicle I	Management					
Make	Yamaha	Model	Motors				
Color	Black	Registration #	HYG986				
Electric Vehicle	Motorcycle						
Park Vehicle							
Slot #		EV Slot?					
Remove Vehicle							
Find by Registration #		Find by Color					
Show All Vehicles							
Created parking lot with 10 re	gular slots a	nd 20 EV slots on level: 1					

3.3. <u>Electric car:</u>

• • •	Parking Lot Ma	nager - Refactored						
Parking Lot Manager - Refactored								
Lot Creation								
Number of Regular Spaces	10	Number of EV Spaces	20					
Floor Level	1							
Create Parking Lot								
	Vehicle	Management						
Make	Tesla	Model	Model 3					
Color	Blue	Registration #	EV456					
✓ Electric Vehicle	Motorcycle							
Park Vehicle								
Slot #		EV Slot?						
Remove Vehicle								
Find by Registration #		Find by Color						
Show All Vehicles								
Created parking lot with 10 re	gular slots a	nd 20 EV slots on level: 1						

3.4. Electric motorcycle:

Parking Lot Manager - Refactored								
Parking Lot Manager - Refactored								
Lot Creation								
Number of Regular Spaces	10	Number of EV Spaces	20					
Floor Level	1							
Create Parking Lot								
	Vehicle I	Management						
Make	VinFast	Model	EVMotor					
Color	White	Registration #	EVMT689					
✓ Electric Vehicle	Motorcycle							
Park Vehicle								
Slot #		EV Slot?						
Remove Vehicle								
Find by Registration #		Find by Color						
Show All Vehicles								
Created parking lot with 10	regular slots a	nd 20 EV slots on level: 1						

3.5. <u>Result:</u>

• • •	 Parking Lot Manager - Refactored 							
1	Parking Lot Manager - Refactored							
	Lot Creation							
Number of Regular Spaces	10	Number of EV Spaces	20					
Floor Level	1							
Create Parking Lot								
	Vehicle M	Management						
Make		Model						
Color		Registration #						
Electric Vehicle	Motorcycle							
Park Vehicle								
Slot#		EV Slot?						
Remove Vehicle								
Find by Registration #		Find by Color						
Show All Vehicles								
Created parking lot with 10 revenicle EVMT689 parked in EV vehicle EV456 parked in EV slovehicle HYG986 parked in regulehicle ABC123 parked in regulehicle	slot 1 ot 2 lar slot 1	nd 20 EV slots on level: 1						

4. Search:

4.1. <u>Search by registration number:</u>

Parking Lot Manager - Refactored								
	Parking Lot Manager - Refactored							
Lot Creation								
Number of Regular Spaces	10	Number of EV Spaces	20					
Floor Level	1							
Create Parking Lot								
	Vehicle Ma	anagement						
Make		Model						
Color		Registration #						
Electric Vehicle	Motorcycle							
Park Vehicle								
Slot#		EV Slot?						
Remove Vehicle								
Find by Registration #	ABC123	Find by Color						
Show All Vehicles								
Created parking lot with 10 regular slots and 20 EV slots on level: 1 Vehicle EVMTG89 parked in EV slot 1 Vehicle EV456 parked in EV slot 2 Vehicle HYG986 parked in regular slot 1 Vehicle ABC123 parked in regular slot 2 Found: ABC123 in Regular slot 2								

4.2. Search by color:

• • •	Parking Lot Manager - Refactored						
	Parking Lot Manager - Refactored						
Lot Creation							
Number of Regular Spaces	10	Number of EV Spaces	20				
Floor Level	1						
Create Parking Lot							
	Vehicle I	Management					
Make		Model					
Color		Registration #					
Electric Vehicle	Motorcycle						
Park Vehicle							
Slot #		EV Slot?					
Remove Vehicle							
Find by Registration #		Find by Color	Blue				
Show All Vehicles							
Created parking lot with 10 r Vehicle EVMT689 parked in EV Vehicle EV456 parked in EV sl Vehicle HYG986 parked in regu Vehicle ABC123 parked in regu Found: ABC123 in Regular slot Found 1 Blue vehicle(s): - EV slot 2	slot 1 ot 2 lar slot 1 lar slot 2	nd 20 EV slots on level: 1					

4.3. <u>Search all:</u>

Parking Lot Manager - Refactored						
			Parking Lot Mana	ager - Refactore	d	
			Lot Cr	eation		
Number of Regular Spaces			10	Number of	EV Spaces	20
	Floor Level		1			
С	reate Parking	Lot				
			Vehicle Ma	anagement		
	Make			Мо	del	
	Color			Registr	ation #	
	Electric Veh	nicle	Motorcycle			
	Park Vehicle					
	Slot #			EV Slot?		
	Remove Vehic	ile				
Fir	nd by Registrat	ion#		Find by	Color	
	Show All Vehic	les				
	G LOT STATI					
	r Vehicles:					
Slot		Reg No.	Color	Make	Model	
1 2		HYG986 ABC123	Black Red	Yamaha Toyota	Motors Camry	
Electric Vehicles: Slot Level Reg No.		Color	Make	Model	Charge	
1 2		EVMT689 EV456	White Blue	VinFast Tesla	EVMotor Model 3	0% 0%

5. Remove vehicle:

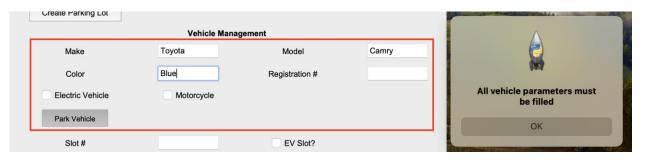
Parking Lot Manager - Refactored								
	Parking Lot Manager - Refactored							
	Lot Creation							
Nu	umber of Regu	lar Spaces	10	Number of	EV Spaces	20		
	Floor Lev	/el	1					
	Create Parki	ng Lot						
			Vehicle Ma	nagement				
	Make			Mo	odel			
	Color			Regist	ration #			
	Electric V	/ehicle	Motorcycle					
	Park Vehi	cle						
Г	Slot #		1	✓ EV	√ Slot?			
L	Remove Ve	nicie						
	Find by Regist	ration #		Find b	y Color			
	Show All Vel	hicles						
DADI	CINC LOT STA	THE						
	KING LOT STA					=========		
Regu	ular Vehicle t Level	es: Reg No.	Color	Make	Model			
1 2	1 1	HYG986 ABC123	Black Red	Yamaha Toyota	Motors Camry			
Electric Vehicles: Slot Level Reg No.		Color	Make	Model	Charge			
1 2	1	EVMT689 EV456	White Blue	VinFast Tesla	EVMotor Model 3	0% 0%		

	Parking Lot Manager - Refactored							
	Parking Lot Manager - Refactored							
	Lot Creation							
Nu	umber of Regula	ar Spaces	10	Number of EV S	paces	20		
	Floor Leve	el	1					
	Create Parkin	ng Lot						
			Vehicle Mana	agement				
	Make			Model				
	Color			Registration	#			
	Electric Ve	ehicle	Motorcycle					
	Park Vehic	le						
	Slot #	[✓ EV Slot?					
	Remove Veh	nicle						
	Find by Registr	ation #		Find by Colo	or			
	Show All Veh	icles						
Regu	ular Vehicle	s:						
Slot		Reg No.	Color	Make	Model			
1 2	1 1	HYG986 ABC123	Black Red	Yamaha Toyota	Motors Camry			
Elec Slot	ctric Vehiclo t Level	es: Reg No.	Color	Make	Model	Charge		
1 2	1 1	EVMT689 EV456	White Blue	VinFast Tesla	EVMotor Model 3	0% 0%		
	icle EVMT689	removed from E						

000	Parking Lot Manager - Refactored							
Parking Lot Manager - Refactored								
Lot Creation								
Number of Regular Spaces	10	Number of	EV Spaces	20				
Floor Level	1							
Create Parking Lot								
Vehicle Management								
Make		Model						
Color		Registration #						
Electric Vehicle	Motorcycle							
Park Vehicle								
Slot #		EV	/ Slot?					
Remove Vehicle								
Find by Registration #		Find by Color						
Show All Vehicles								
PARKING LOT STATUS	=========							
		=========	=========					
Regular Vehicles: Slot Level Reg No.	Color	Make	Model					
1 1 HYG986 2 1 ABC123	Black Red	Yamaha Toyota	Motors Camry					
Electric Vehicles: Slot Level Reg No.	Color	Make	Model	Charge				
2 1 EV456	Blue	Tesla	Model 3	0%				

6. Error handling:

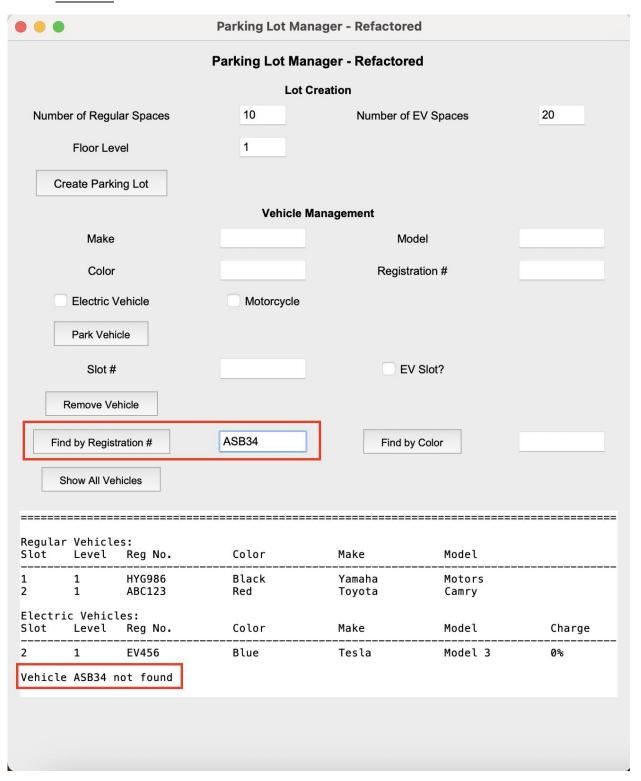
6.1. Park vehicle:



6.2. Remove vehicle:



6.3. <u>Search:</u>



Parking Lot Manager - Refactored								
Parking Lot Manager - Refactored								
Lot Creation								
Number of Regular Spaces	10	Number of	EV Spaces	20				
Floor Level	1							
Create Parking Lot								
Vehicle Management								
Make		Мо						
Color		Registr						
Electric Vehicle	Motorcycle							
Park Vehicle								
Slot#	EV Slot?							
Remove Vehicle								
Find by Registration #		Find by Color Yellow						
Show All Vehicles								
Regular Vehicles: Slot Level Reg No.	Color	Make	Model					
1 1 HYG986 2 1 ABC123	Black Red	Yamaha Toyota	Motors Camry					
Electric Vehicles: Slot Level Reg No.	Color	Make	Model	Charge				
2 1 EV456	Blue	Tesla	 Model 3	0%				
Vehicle ASB34 not found No Yellow vehicles found								