ROJEC

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I.introduction

team members:

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project description:

My car software is a software that's installed on a device that we plug it in any car and connected to an application on your mobile phone by Qr code to make sure that's the right car, this software allow the user to know everything about his car for A~Z, it also scan the car continuously and can detect any issues or anything unusual in the car, the application is connect with a trusted phone number and always connected to the nearest aid station for unexpected accidents, it has also a feature that can find the nearest parking in your area and assist the user to park easily and fast



purpose:

the purpose form this application is to make the user keep his car in good condition all the time and know everything about his car to make sure that its performance is good and to make sure that his car in safe and to make finding parking slot more easier and save his time and effort, it also help new comers to car's life to tell him when he change the oil and the type of oil and make him understand car issues

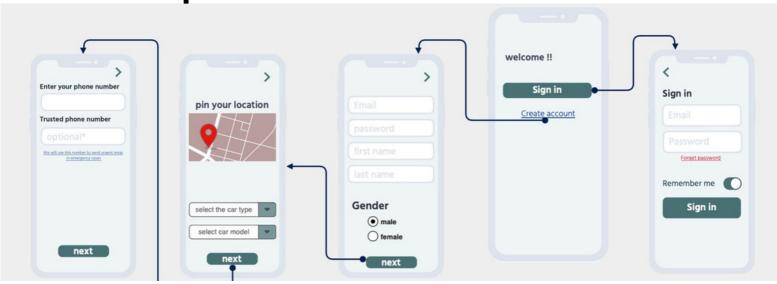


goals/objectives:

- make the parking more easier and fast.
- decide the best type of oil for your car
- find your car easy in parking area
- make the payment more easy and fast
- can check your car performance
- Reminds you of the car maintenance
- make you can control your car from every where
- be able to see what inside the car all the time bye 360 cam
- make more than profile if the user has more than one car
- warning system to protect the car
- save your time by book your parking slot



II. Requirements User Requirements:



1.the user need to login or create a new account ,Enter the main info about his car and his registration Id and choose his country and his address

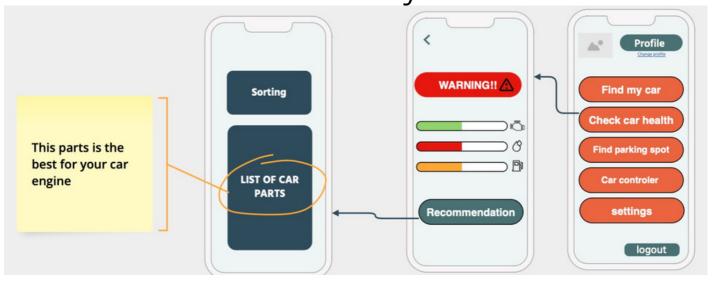


2.Before, installing the device in the car, He has to scan the Qr code to connect the car with the mobile phone

3.the user could enter any trusted phone number that can receive urged massages in case of accident

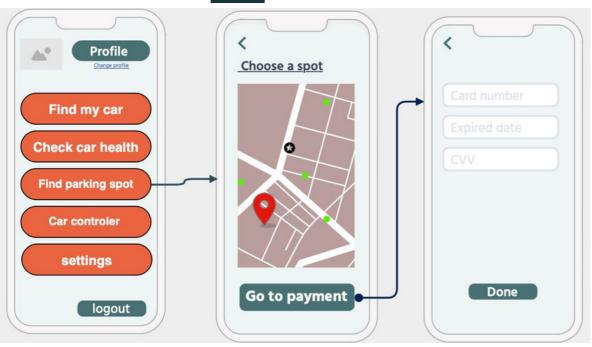


4. the user can find his car and the Ai will draw the shortest path to his car and also can share its location with any one



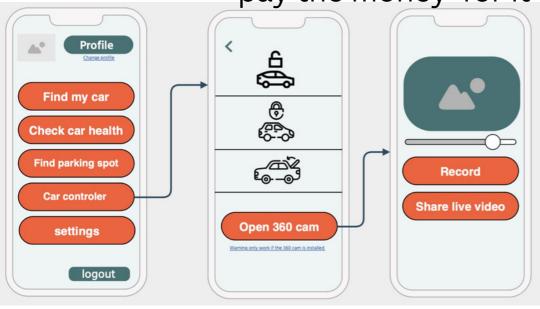
5.He can check his cars health by entering more details to know if there's any problem or issues the car and also The app help the user to know if the engine in good condition or it need maintains also, the app help the user to know oil pressure and recommend the best oil brand and Viscosity for his engine



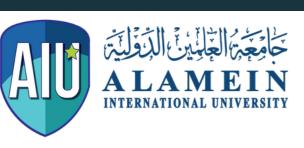


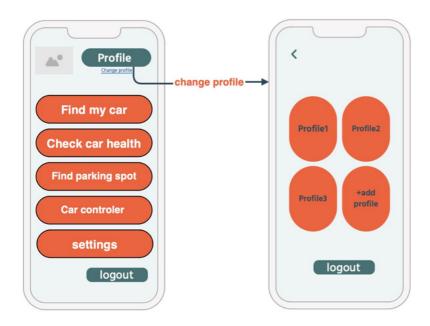
6. the car also find the nearest parking spot in your area and help u to park in easy way and book it and

pay the money for it



7. the use can use this app to control his car from his home or anywhere and know what's going in the car by 360 cam





8.the user can add more than one profile and more than one car

9.the app will automatically ring in case someone is trying to open the car paddle car will rings too



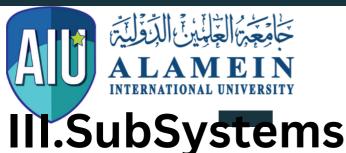
System Requirements:

- 1- the system should check if the email and password are correct
- 2- the system should be able to detect if the QR code is correct
- 3- the system should be connected to satellite (GPS) and AI to get the shortest path
 - 4- the system should include sensors to detect any problem
- 5- for the security system, the installed device should be giving an electric shock if someone tried to get it out of the car, unless the user give him an access
 - 6. the system must check if user's credit card valid and has enough money for paying
- 7. the system able to send a notification to the user to warn him if there's something unique



8.the system able to compare the best product to your car by the factory recommendation

9. the system will be able to book the parking slot to be free for u



III.Gabbystellis								
Subsystem Name	Subsystem Function	Subsystem Interface						
Signing in	to be able to use the app	public User Info sign In(Boolean Correct Pass);						
Scanning the code	to make sure that the installed device related to the user	public Image scan(Boolean Correct Code);						
Take me to the car	use artificial intelligence to find the shortest path to the car	public Location Find My Car(Object Shortest Path);						
Recommendations for car health	to recommend the best product for the car type	public Car Parts Recommended Parts(string Best Products);						
Credit card validation	to pay for the parking spot	public Credit Card Validity (Boolean Valid);						
Changing profile	to be able to add multiple profiles for multiple cars	public User Info add Profile(User user)						



IV.traceability matrix:

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USEr Requirement s number	Signing in	Scanning the code	Take me to the car	Recommen dations for car health	Credit card validation	Changing profile
1	X					
2		х				
3						
4			х			
5				Х		
6					Х	
7						
8						Х
9						



System requirements matrix

Requireme nts number	Signing in	Scanning the code	Take me to the car	Recommen dations for car health	Credit card validation	Changing profile
1	Х					
2		Х				
3			Х			
4				Х		
5						
6					х	
7						
8				х		
9						