Islamic University Faculty of Computer and Information Systems		الجامعة الإسلامية كلية الحاسب الآلي ونظم المعلومات

Software Engineering
Project Part 2: Lab Report
Second Semester 2021-2022
Deadline Lab Report: March 21, 2022

Project Title: **CarDNA: Gather Cars Accidents Data from Cars Workshops**

Supervisor Name: Abdullah Alsuhaibani

Section: 2421

	Student Name	ID	Chapters
1	Mohammed Raef Dhahir	392024823	3.1(ERD & UML)
2	Essam Anwar Khalil	392024443	3.2
3	Omar Khan	391007603	3.1(activity & DFD)

Chapter	Points Assigned	Points Awarded		
		#1	#2	#3
3.1	**7**			
3.2	**3**			
Total	**10**			

Note:

- Plagiarism: a mark of **Zero** will be given.
- Submitting after the deadline is subject to a penalty as follows:
  - ☐ On the submission day, but after the submission hour: (- 5%)

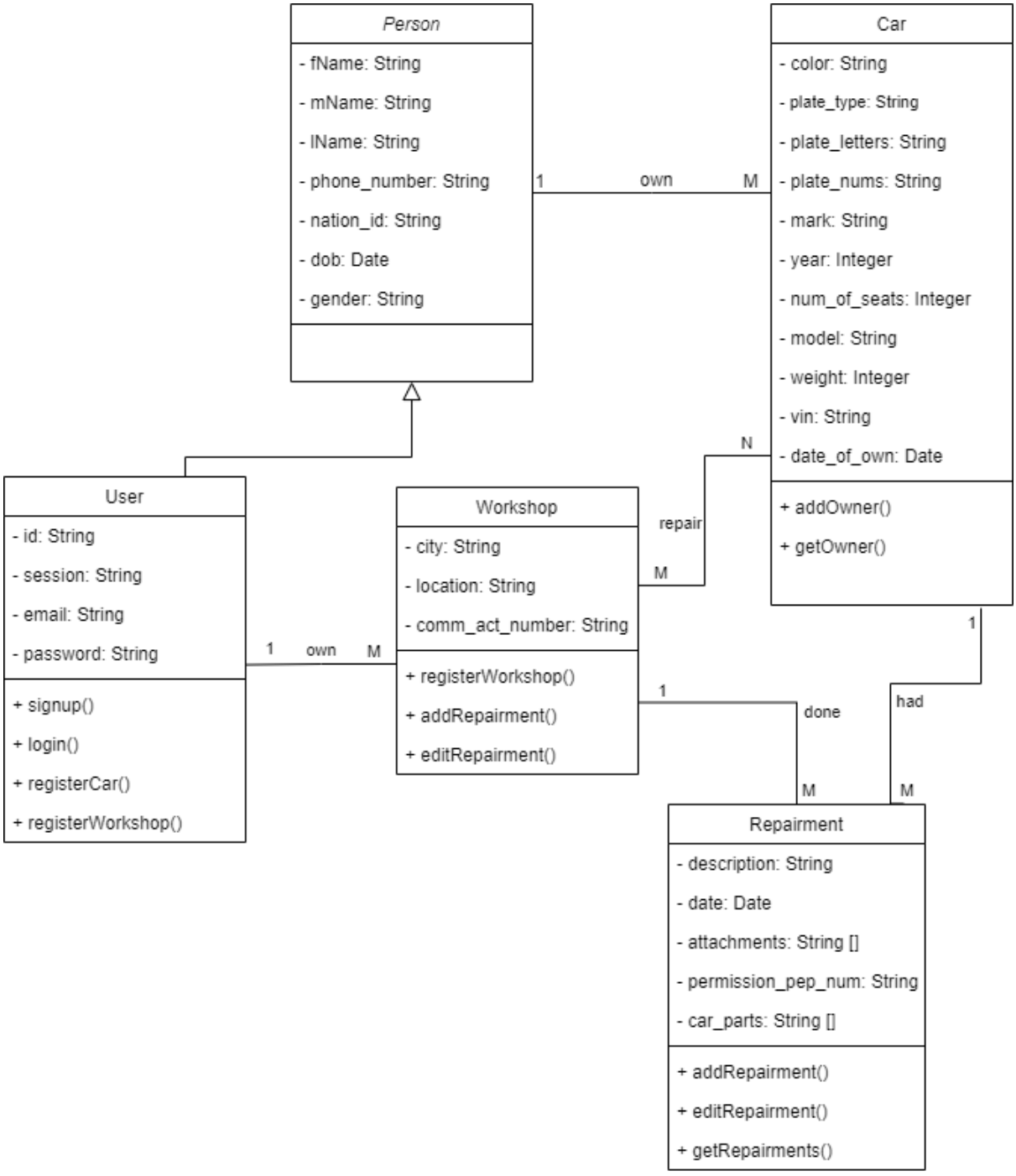
The project part two must include the following chapters as well as the main points in each chapter:

Chapter 3: Methodology must include: (2-4 pages)

- Data and Process modelling using ER diagrams, UML and other diagrams. (minimum 4 diagrams).

- User Interface: Design and create user interfaces.

UML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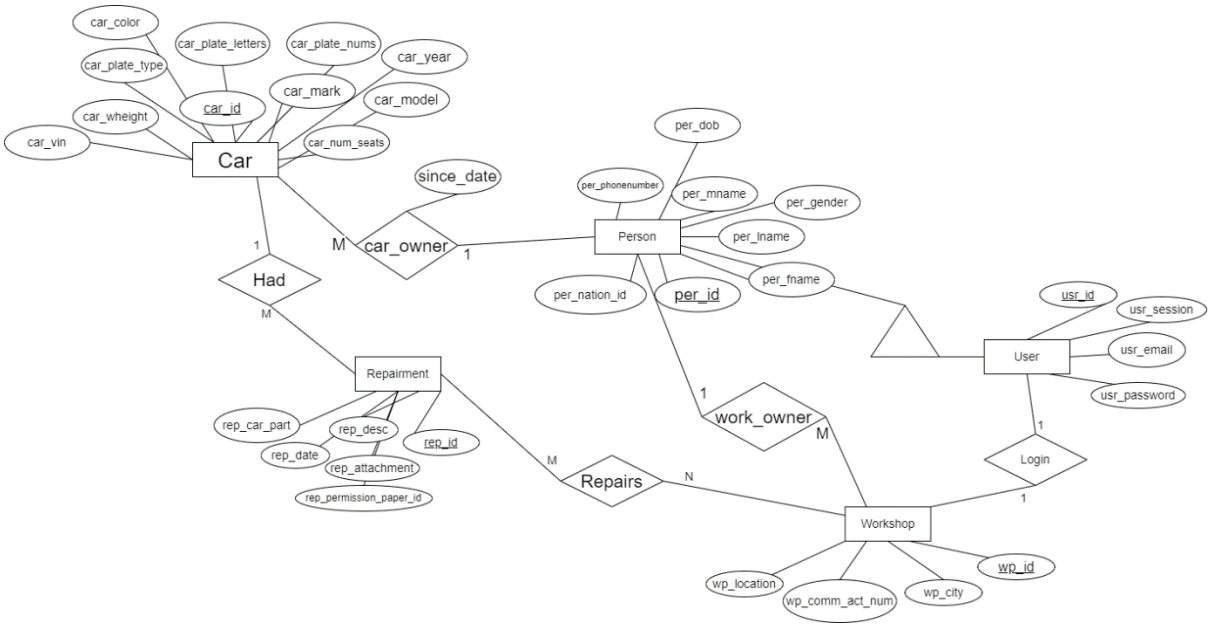
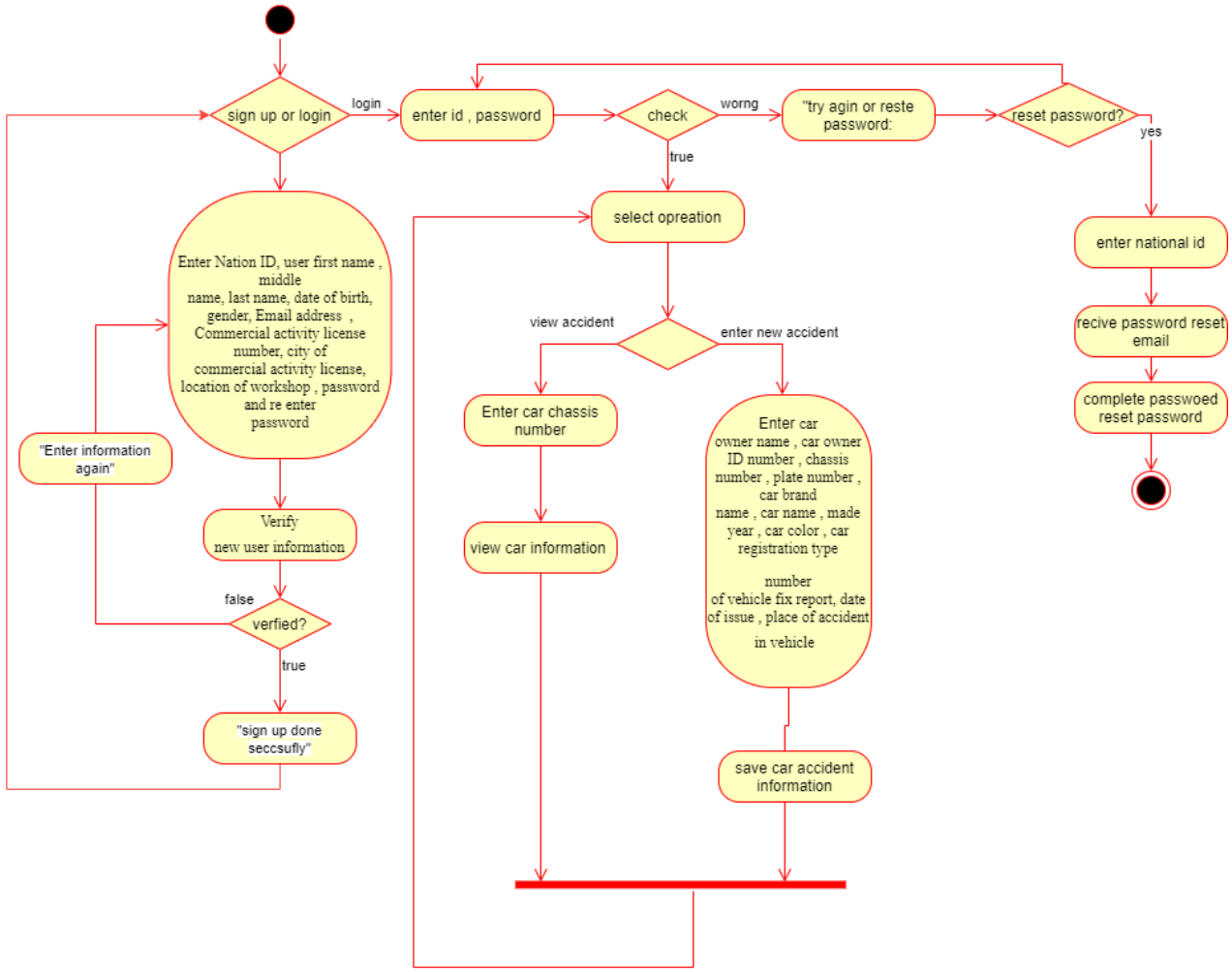
- fName: String
- mName: String
- lName: String
- phone_number: String
- nation_id: String
- dob: Date
- gender: String
1
own
M
Car
- color: String
- plate_type: String
- plate_letters: String
- plate_nums: String
- mark: String
- year: Integer
- num_of_seats: Integer
- model: String
- weight: Integer
- vin: String
- date_of_own: Date
+ addOwner()
+ getOwner()
N
repair
M
User
- id: String
- session: String
- email: String
- password: String
+ signup()
+ login()
+ registerCar()
+ registerWorkshop()
1
own
M
Workshop
- city: String
- location: String
- comm_act_number: String
+ registerWorkshop()
+ addRepairment()
+ editRepairment()
1
done
M
1
had
M
Repairment
- description: String
- date: Date
- attachments: String []
- permission_pep_num: String
- car_parts: String []
+ addRepairment()
+ editRepairment()
+ getRepairments()

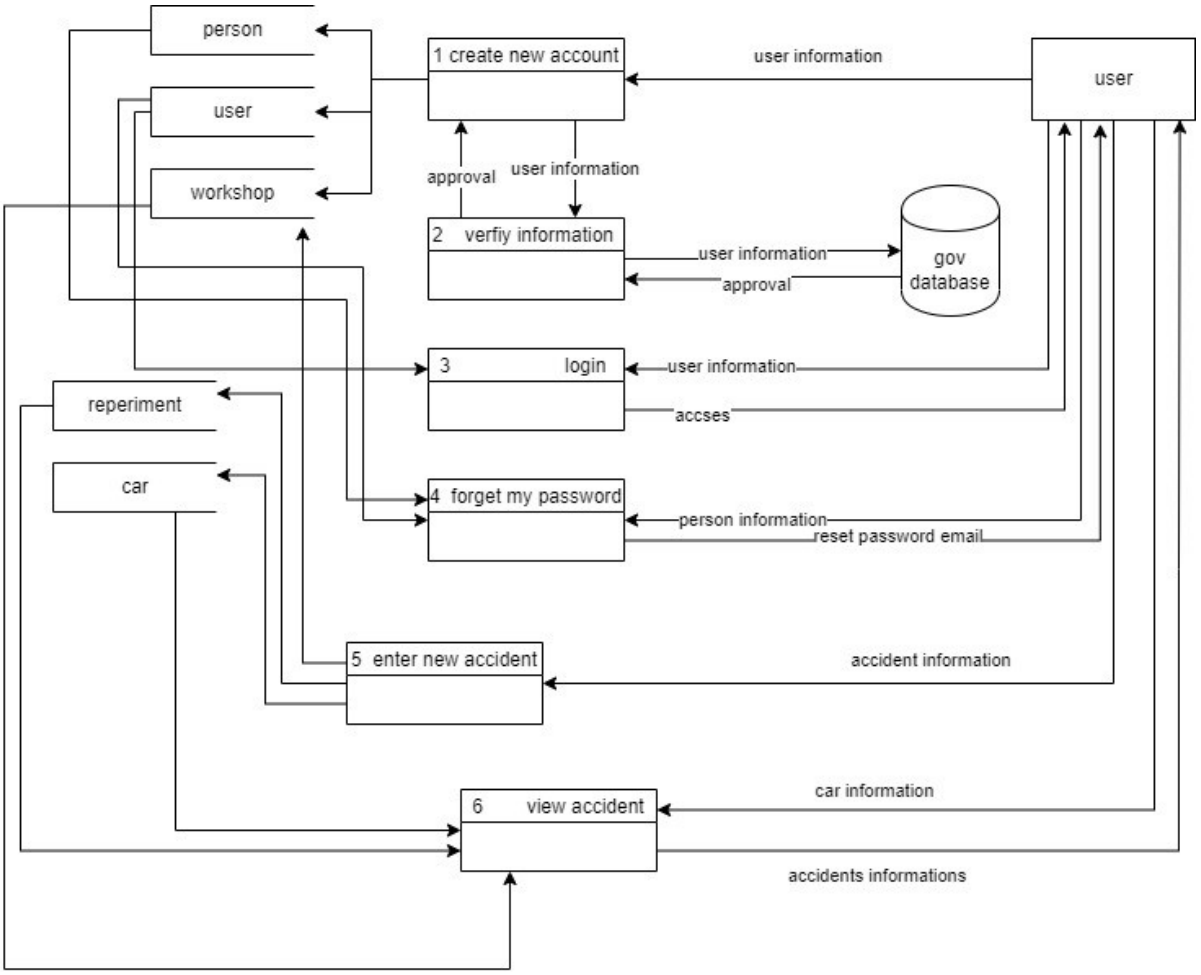
ERD



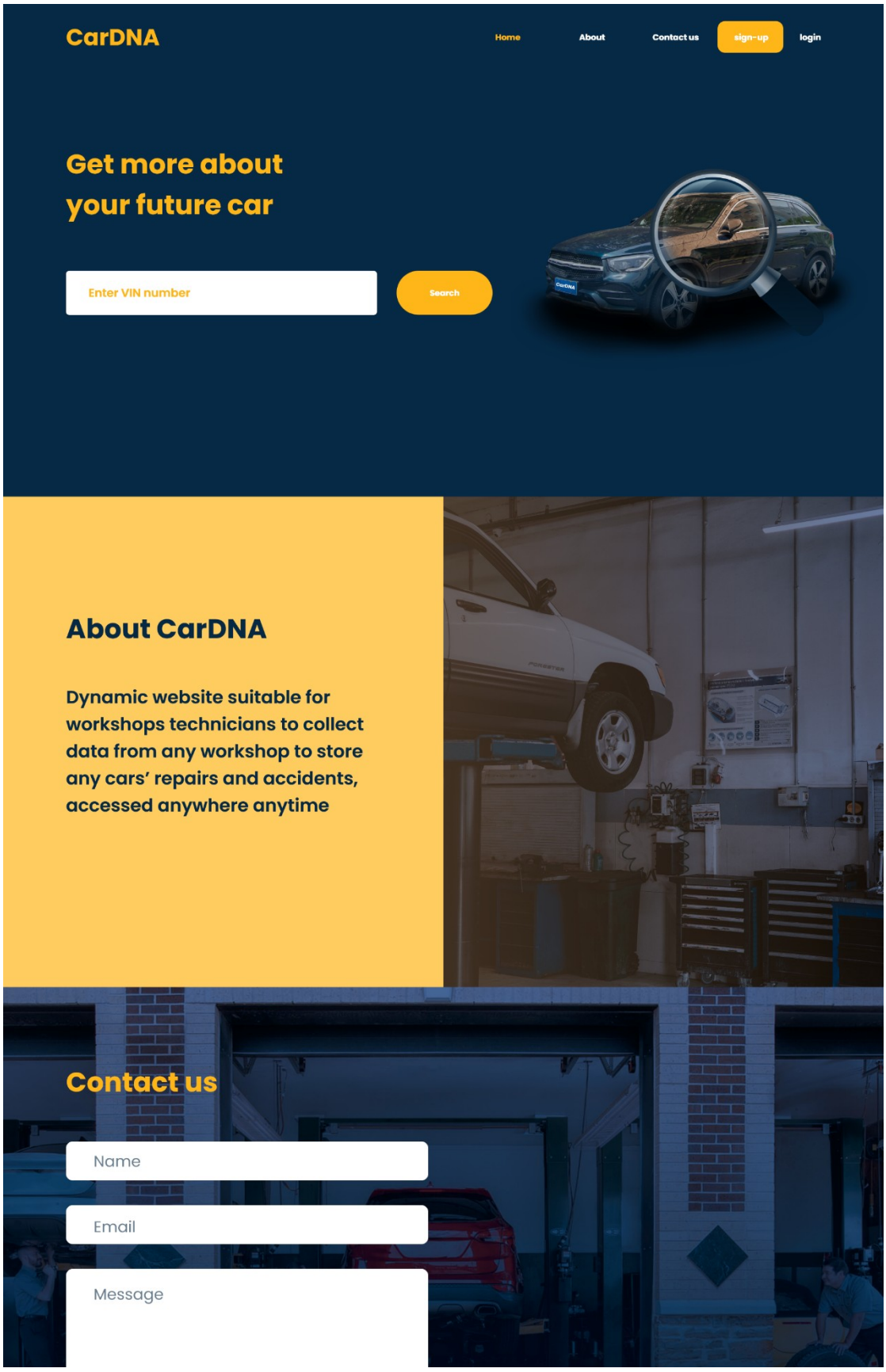
Activity Diagram



DFD


person
user
workshop
1 create new account
user information
user
approval
user information
2 verfiy information
user information
approval
gov
database
3 login
user information
accses
reperiment
car
4 forget my password
person information
reset password email
5 enter new accident
accident information
6 view accident
car information
accidents informations

User Interface


CarDNA
Home
About
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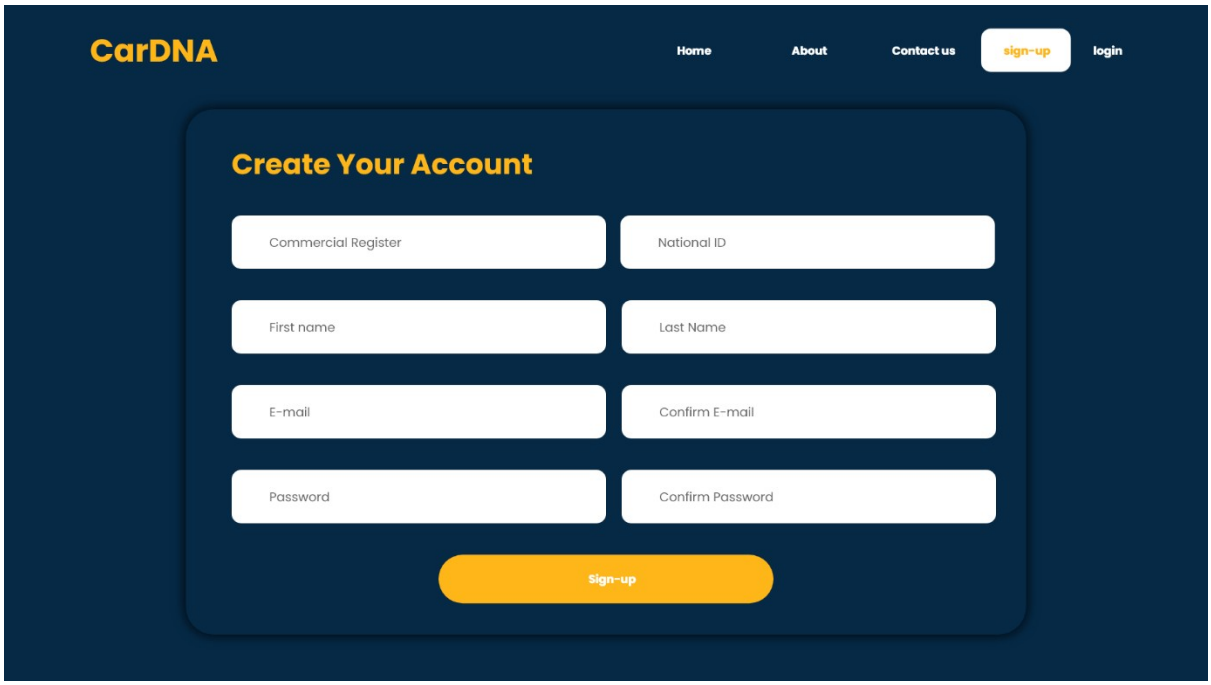
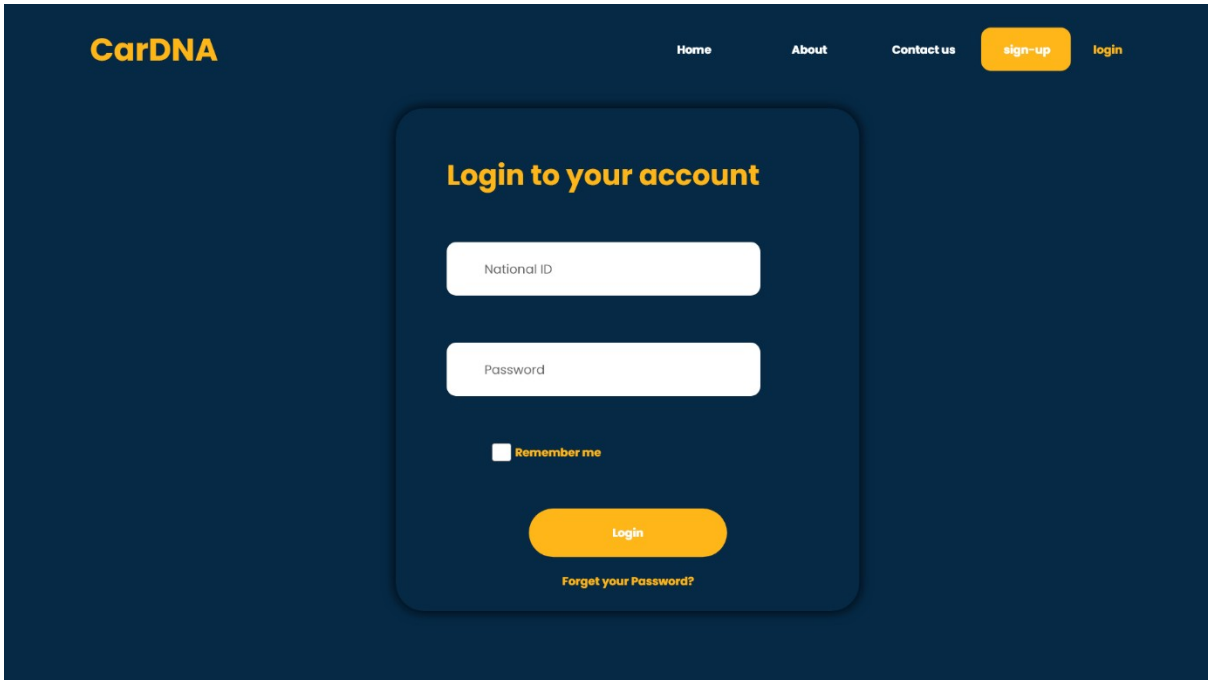
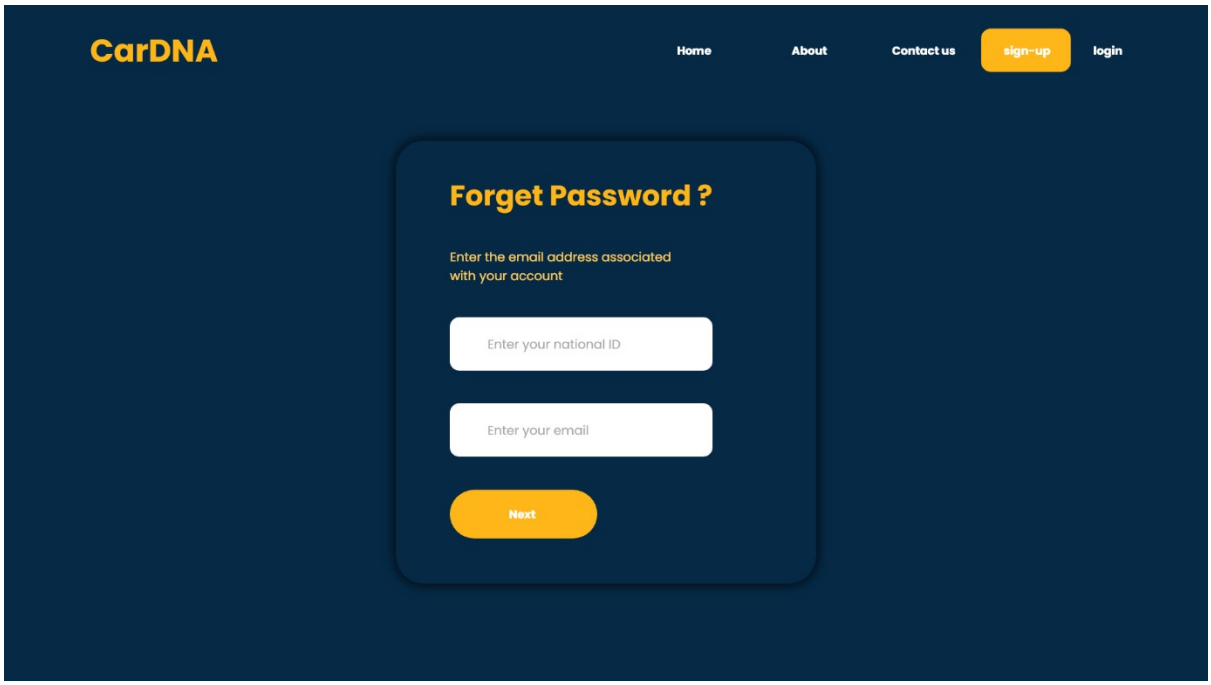
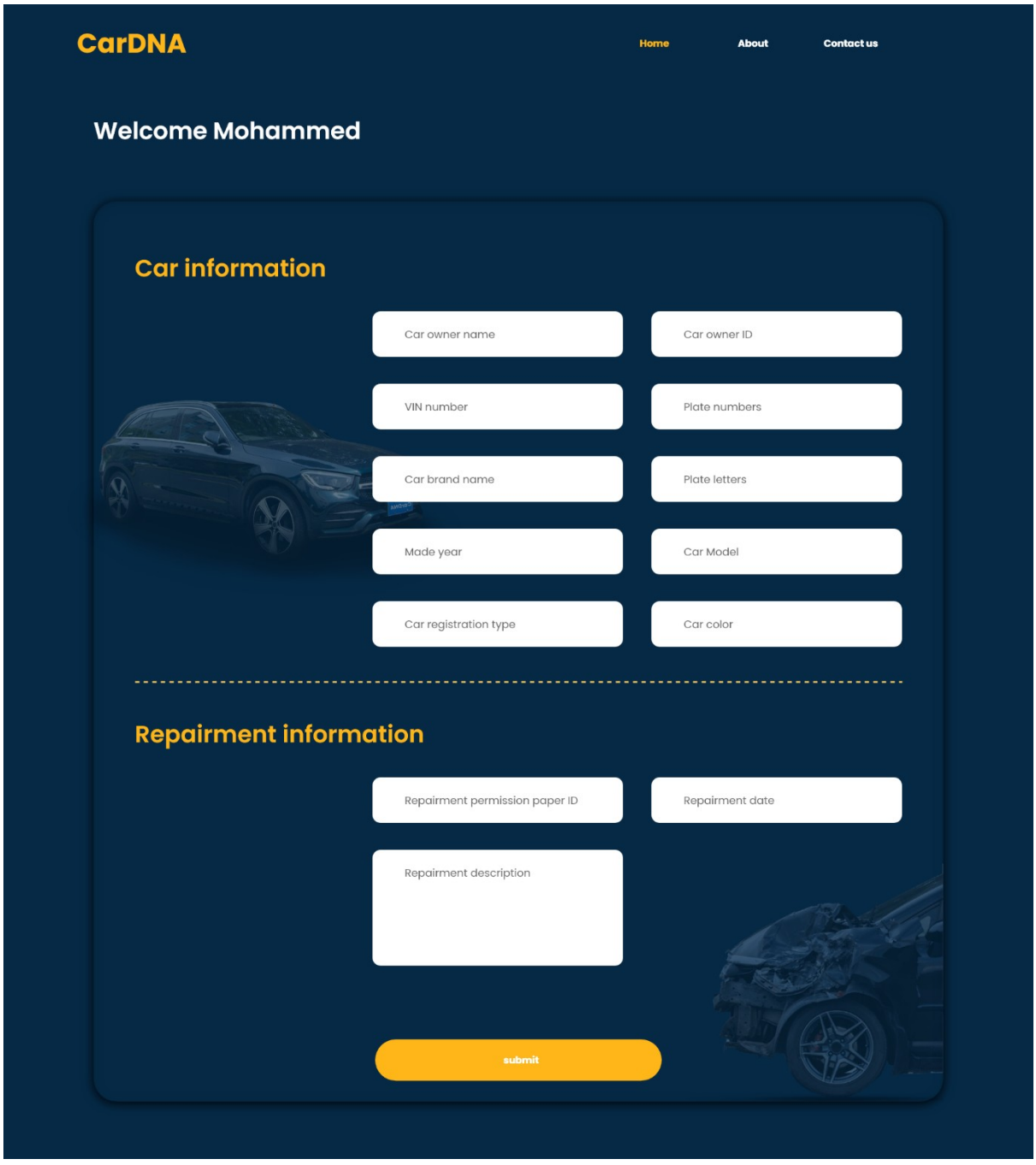
login
Get more about
your future car
Enter VIN number
Search
About CarDNA
Dynamic website suitable for workshops technicians to collect data from any workshop to store any cars' repairs and accidents, accessed anywhere anytime
Contact us
Name
Email
Message


CarDNA
Home
About
Contact us
sign-up
login
Create Your Account
Commercial Register
National ID
First name
Last Name
E-mail
Confirm E-mail
Password
Confirm Password
Sign-up


CarDNA
Home
About
Contact us
sign-up
login
Login to your account
National ID
Password
Remember me
Login
Forget your Password?


CarDNA
Home
About
Contact us
sign-up
login
Forget Password ?
Enter the email address associated with your account
Enter your national ID
Enter your email
Next


CarDNA
Home
About
Contact us
Welcome Mohammed
Car information
Car owner name
Car owner ID
VIN number
Plate numbers
Car brand name
Plate letters
Made year
Car Model
Car registration type
Car color
Repairment information
Repairment permission paper ID
Repairment date
Repairment description
submit

CarDNA
Home
About
Contact us
CarDNA Report
Report date : 3/3/2022
VIN Number: 1HGBH41JXMN109186
Car information:
Plate numbers : 7555
Plate letters: TTT
Car brand name: Toyota
Car model: camry
Car color: Black
Model year: 2020
Workshop information:
Name: Fix Cars
city: Madinah
Commercial Register: 1234567890
Workshop information:
Repairment permission paper ID: TA5RP003
Repairment date: 4/2/2019
Repairment description:
-
-
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CarDNA