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:
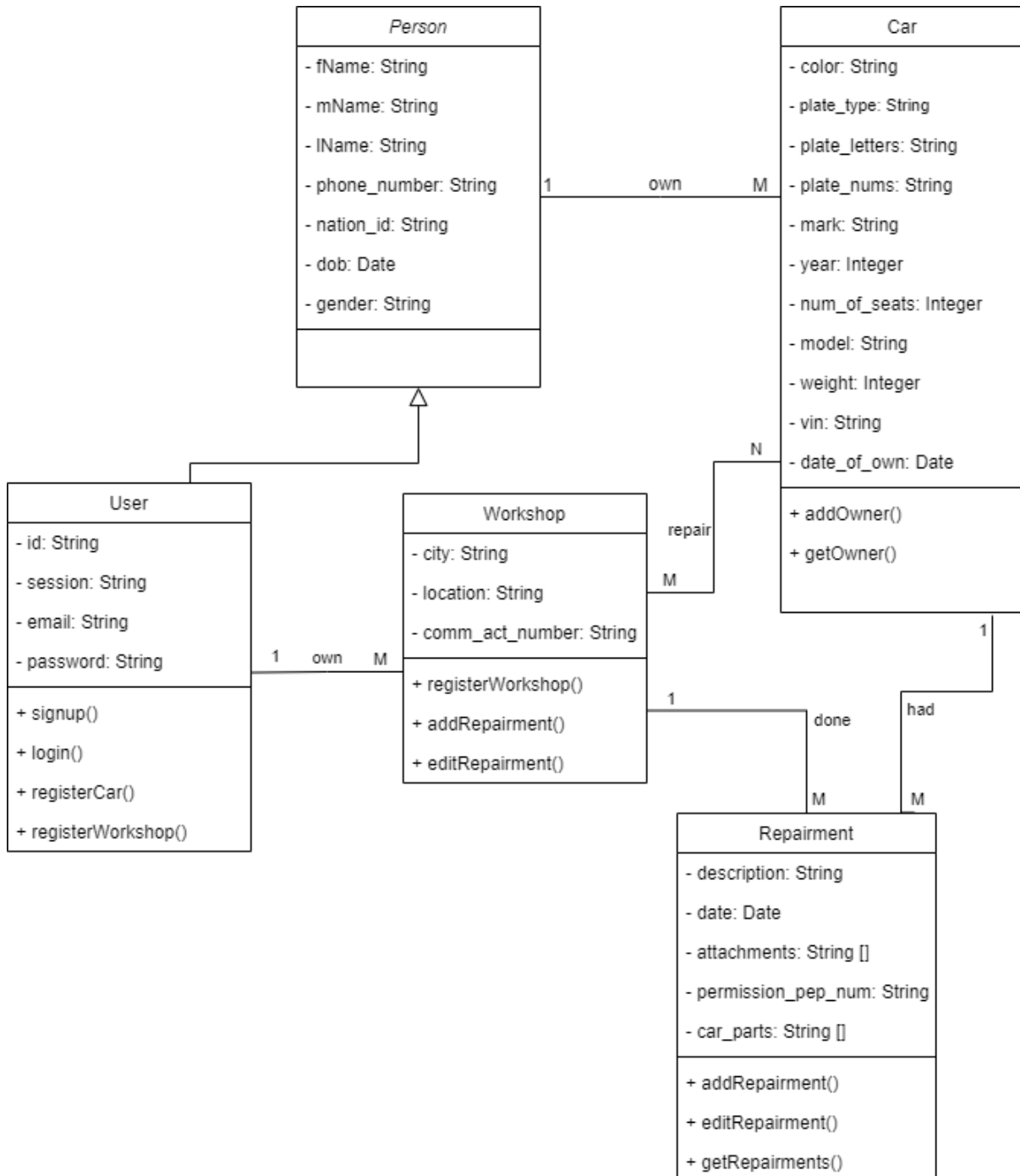 ☐ On the submission day, but after the submission hour: (- 5%)

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).
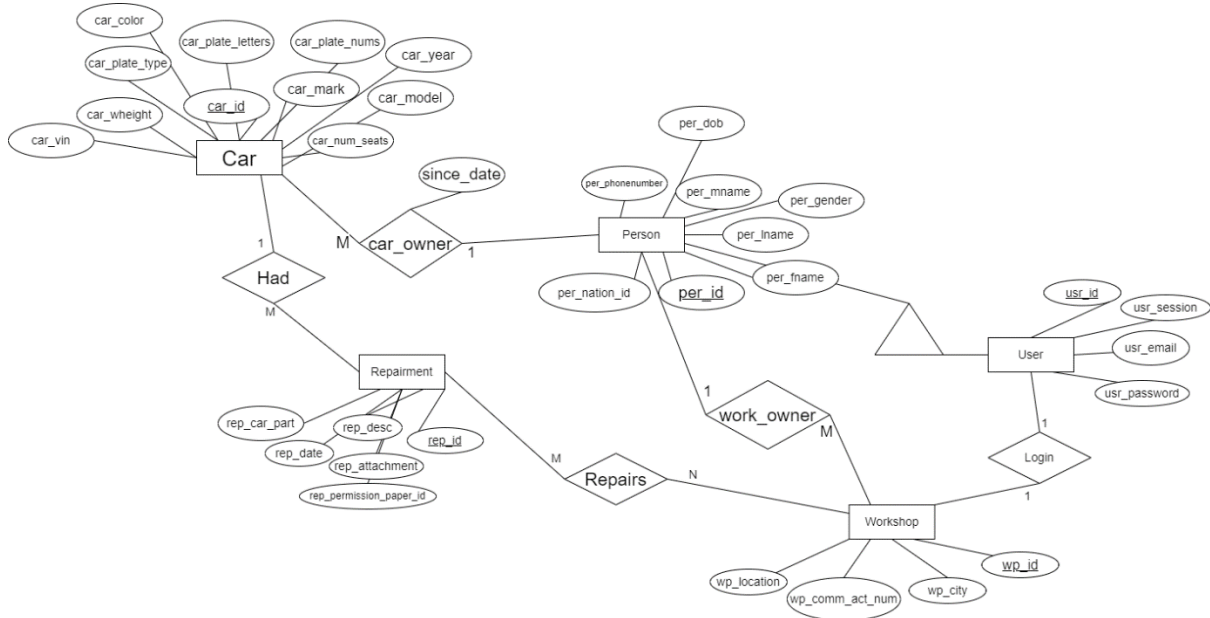
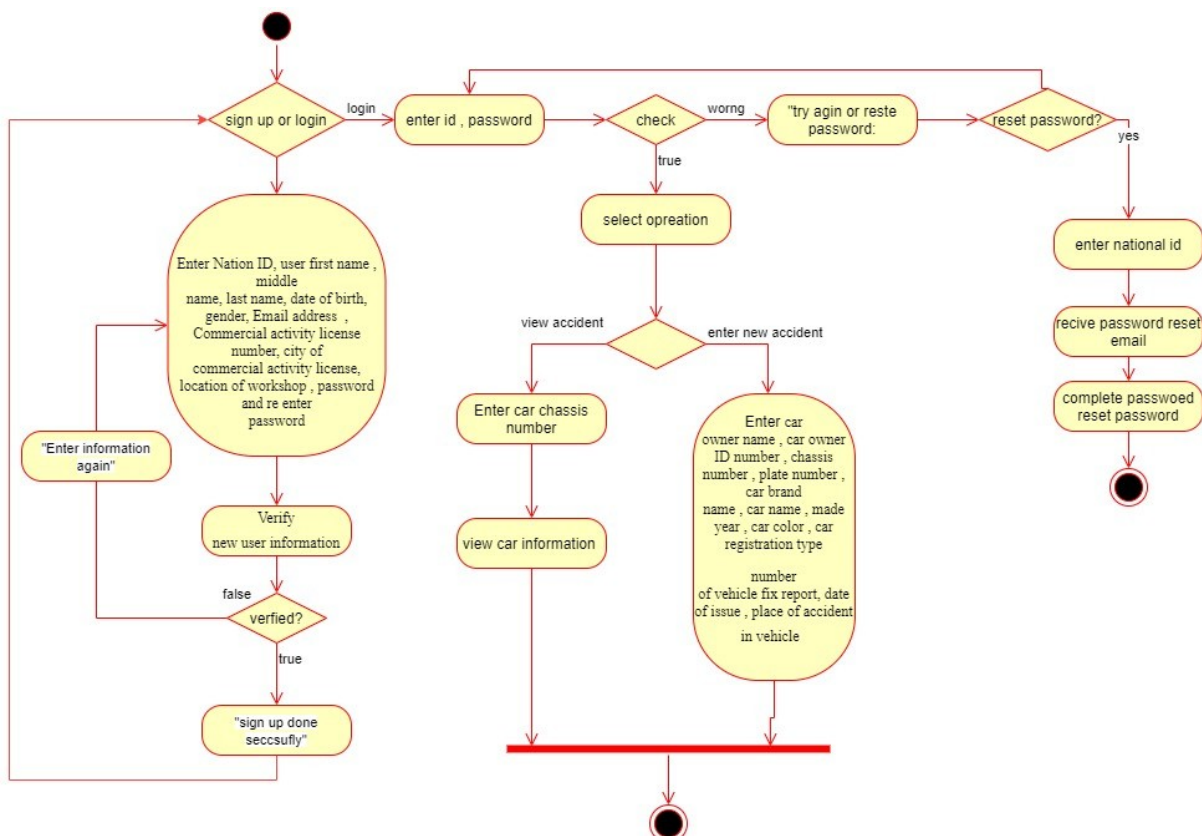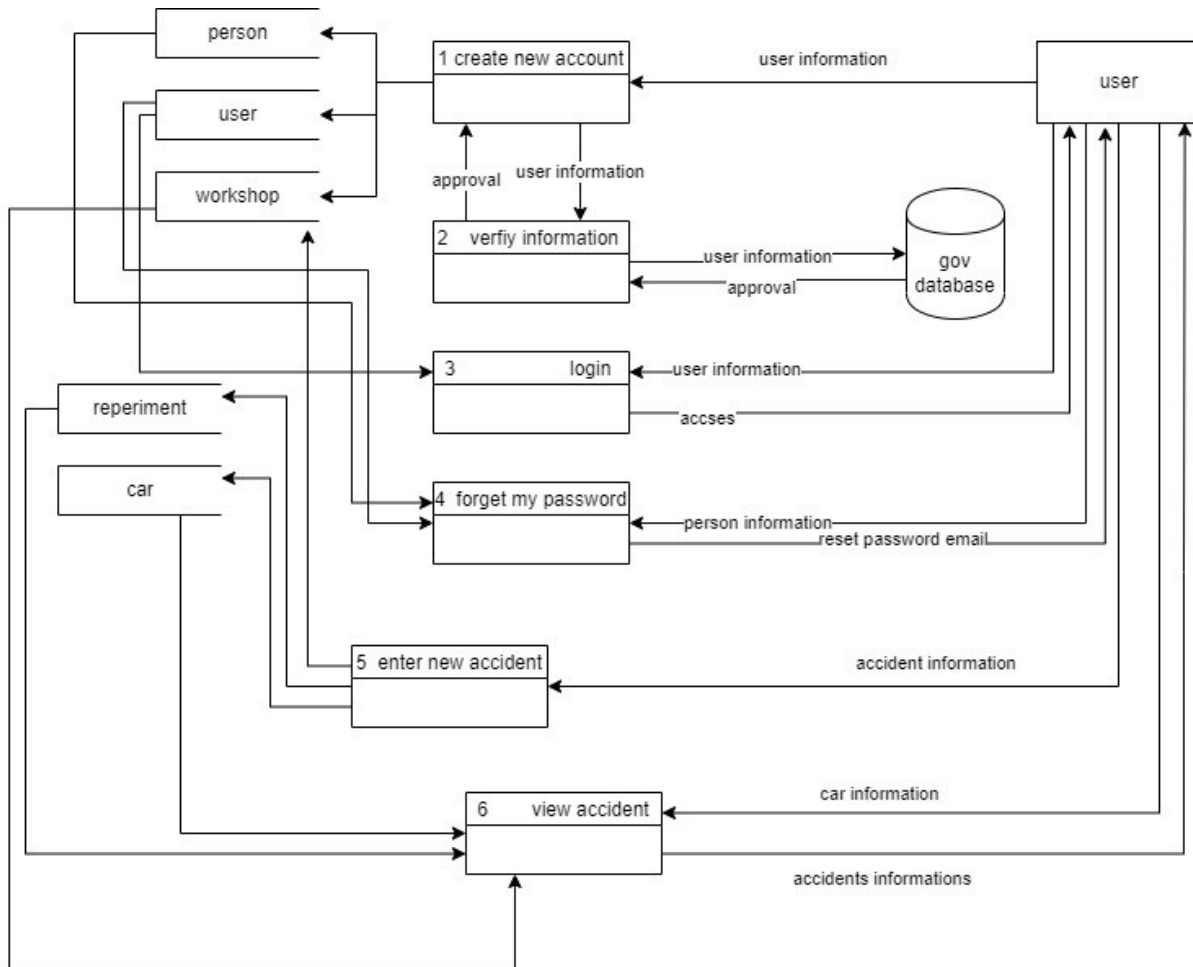• User Interface: Design and create user interfaces.

UML

Person
- fName: String
- mName: String
- lName: String
- phone_number: String
- nation_id: String
- dob: Date
- gender: String

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()

1 — own — M

User
- id: String
- session: String
- email: String
- password: String
- + signup()
- + login()
- + registerCar()
- + registerWorkshop()

Workshop
- city: String
- location: String
- comm_act_number: String
- + registerWorkshop()
- + addRepairment()
- + editRepairment()

1 — own — M

N / repair / M

Repairment
- description: String
- date: Date
- attachments: String []
- permission_pep_num: String
- car_parts: String []
- + addRepairment()
- + editRepairment()
- + getRepairments()

1 — done — M

1 — had — M

ERD

Activity Diagram

DFD

User Interface

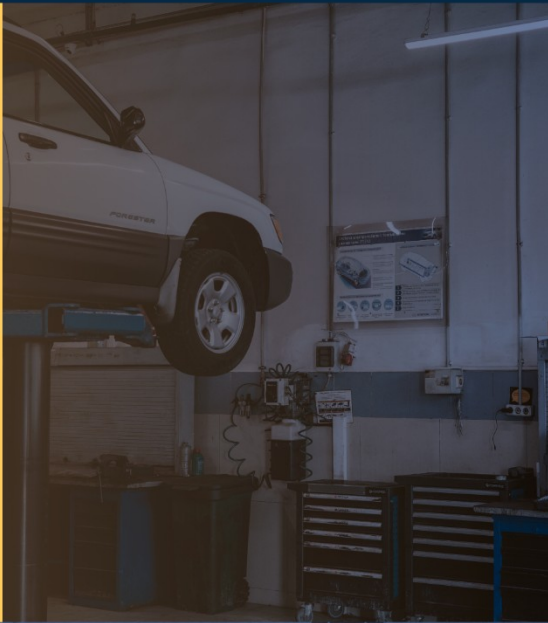**CarDNA**

Home   About   Contact us   sign-up   login

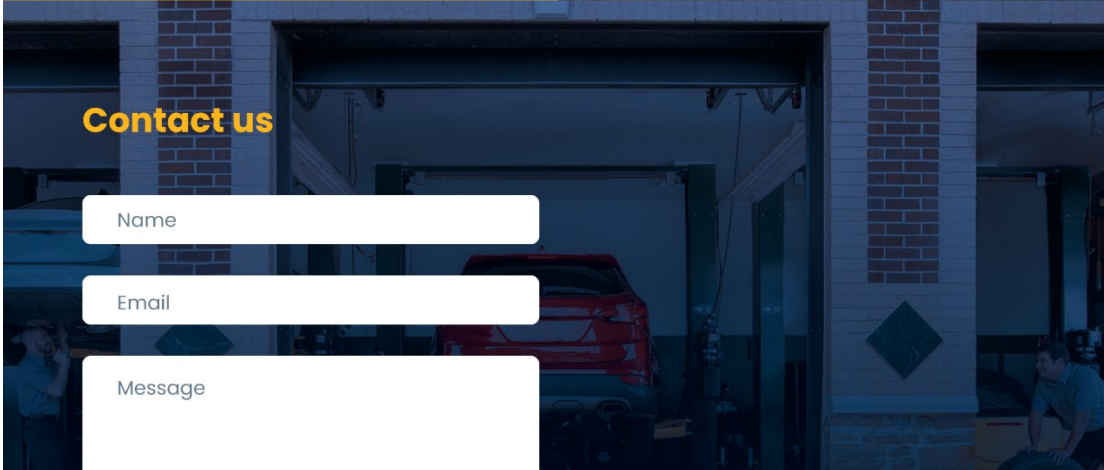## Get more about your future car

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

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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:
-
-
-
-

CarDNA