

# Database Project Report

for

## Project Vozilo

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# Chapter 1

## Introduction

### 1.1 Overview

The project deals with today's parking problems efficiently by utilizing a clear database and managing it through different aspects. Following project can record, store and manage incoming and outgoing vehicles from the parking lot. Also it makes sure security by checking CPLC status of incoming vehicle by using authenticate government websites and deciding whether to inform user or not about the CPLC status of vehicle. It does so by efficiently recognizing license plate of the car and converting it into a valid string using machine learning. After that it inserts fetched data into database along with some other credentials which are helpful to manage today's huge parking lots, organization's parkings.

### 1.2 Document Convention

The following conventions have been used in this document.

CNIC	Computerized National Identity Card
CPLC	Citizens-Police Liaison Committee
AFR	Applied For Registration
NADRA	National Database and Registration Authority
KPK	Khyber Pakhtunkhwa
ER-Model	Entity Relationship Model
ML	Machine Learning
OCR	Optical Character Recognition.

## Chapter 2

# Design Considerations

### 2.1 Work Division

The project work Division is as follows:

Anas Yasin	Insert Queries
Anas Yasin	OCR and WebCam Module
Mudassir Latif	Table Create Queries
Mudassir Latif	GUI
Adil Ayub	Selection Queries
Adil Ayub	Web-Scarping

The analysis of the project was a group effort.

### 2.2 Constraints

Due to out project being automated for the most part we have quite a few constraints.

- The Date will have specific format.
- The Number plate will have specific format. e.g XX-YYYY  
Where X is a letter and Y is a number both being of n length

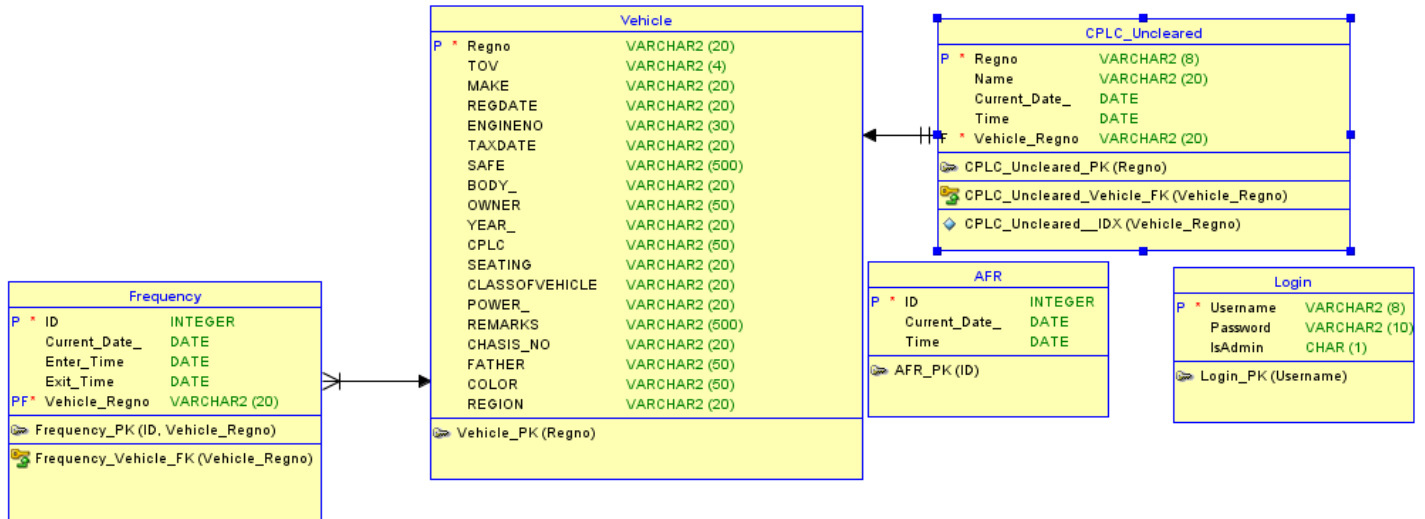
### 2.3 Limitation

These are the following assumptions made for this project:

1. The registration number of the car will be obtained using an image.
2. The data of the vehicle's owner is taken from the government's public website.

## 2.4 Database Design

### 2.4.1 ER Diagram



## Chapter 3

# References

- <https://krazytech.com/projects/sample-software-requirements-specificationsrs-report-airline-database>
- <http://www.ai-rider.com/index.php/en-us/2017-06-30-04-20-32/2017-06-30-06-23-26/32-products-2/2017-06-30-06-27-34/107-2017-07-27-09-10-03>
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- KPK vehicle Verification
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