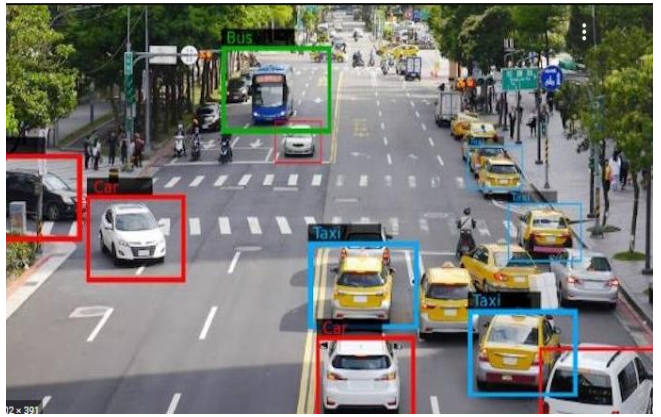
TRAFFIC MONITORING SYSTEM

Smarter Ramallah

Objective

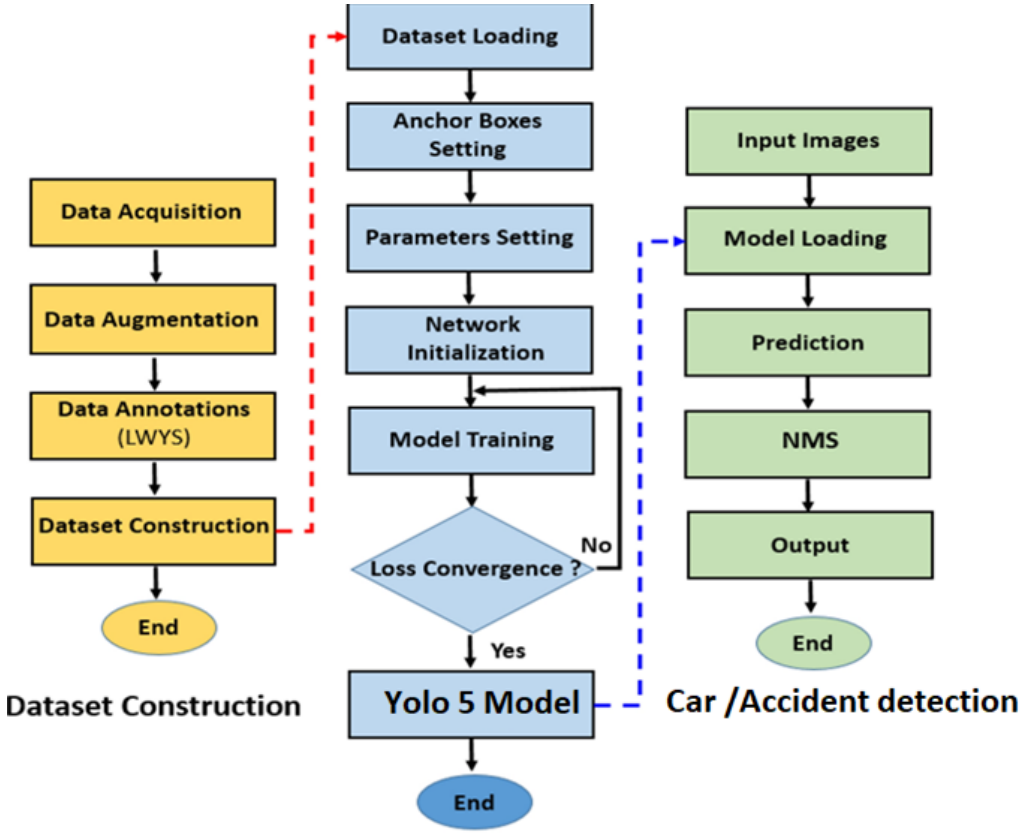
- Ramallah city is equipped with video surveillance cameras installed on different roads and highways, and in this project we will implement a smart traffic monitoring system using artificial intelligence and deep learning tools ,and the implemented system will be able to achieve the following :

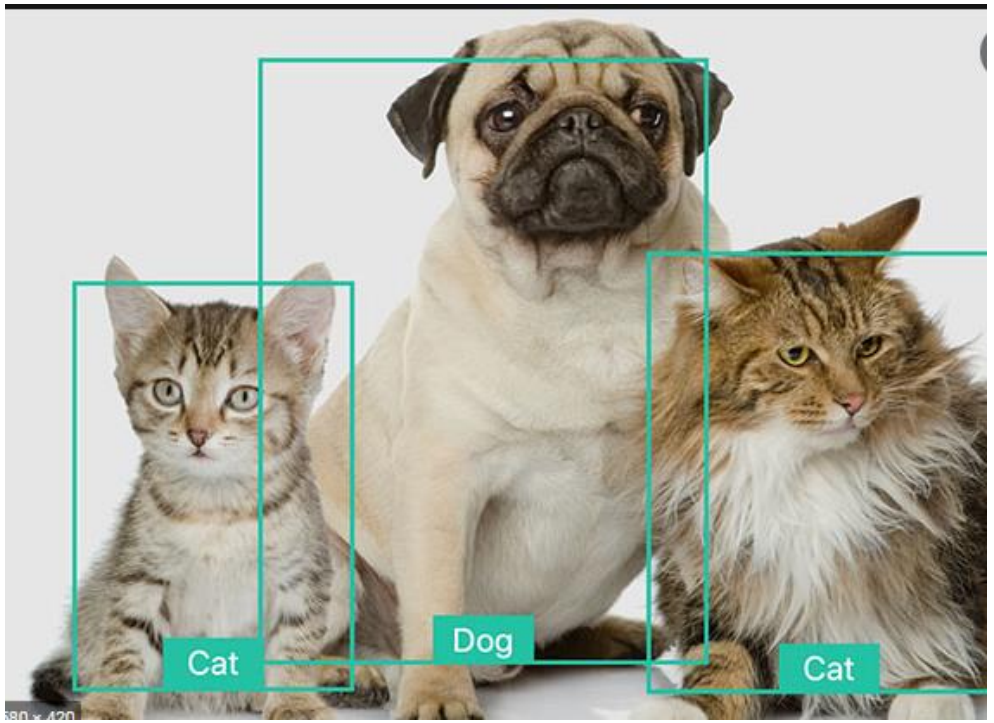


- Measuring the real time of traffic parameters to insure a fluid traffic and avoid accidents.

- Adaptive control: the system provide a real data about the traffic statues for the decision makers to let them managed the traffic systems depends on real data , they will make a better decisions about adjustments to systems including traffic lights, on-ramp signaling, and bus rapid transit lanes.

YOLO5 algorithm





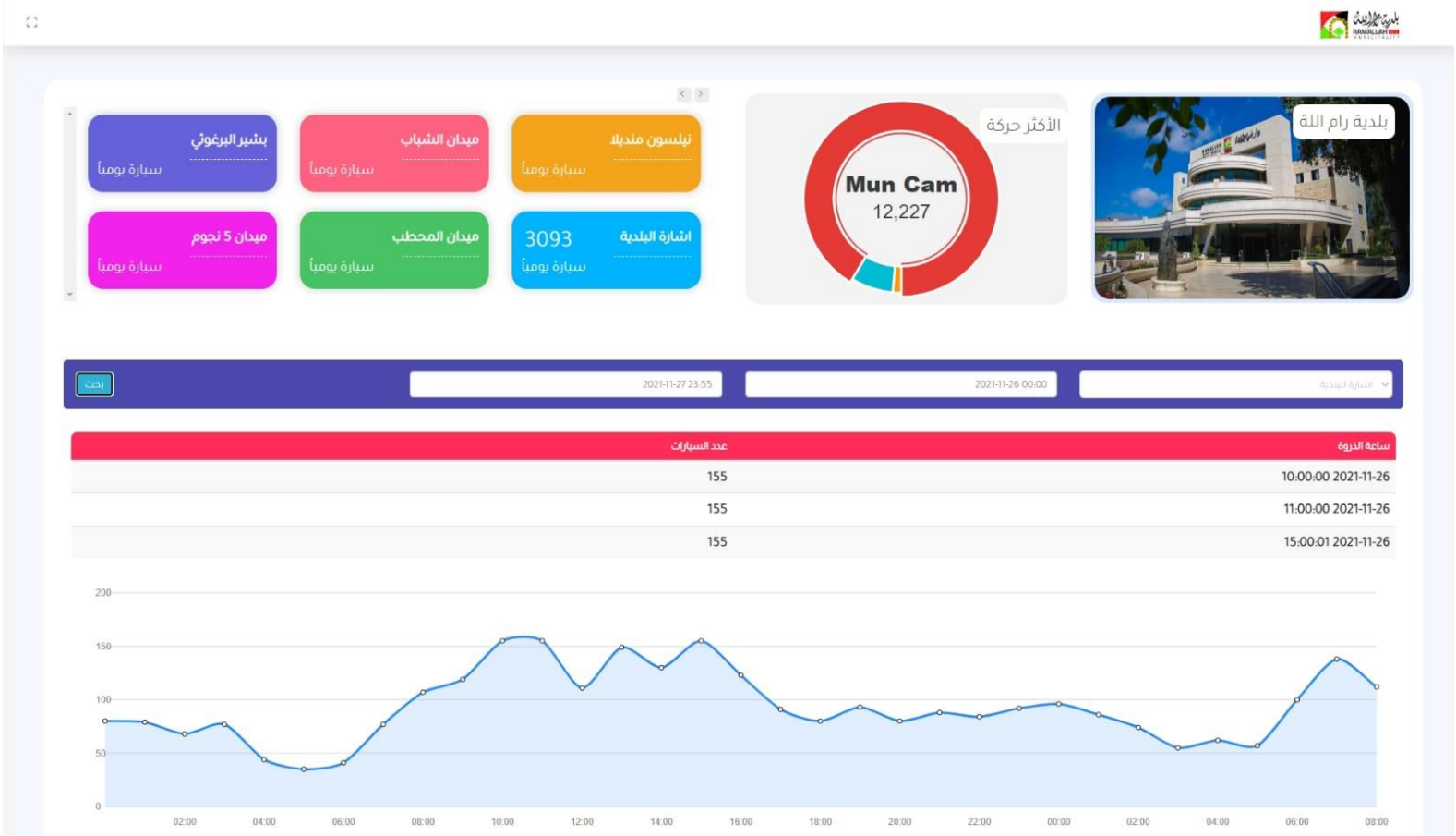
Determine output/ deliverable

The system will give the following outputs :

camera location, time, date, day, number of car each hour ,accidents.

camera name	time	date	day	number of cars	number of car accidents
Mun Cam	12:00 AM	10/12/2021 0:00	Tuesday	205	0
Mun Cam	1:00 AM	10/12/2021 1:00	Tuesday	145	0
Mun Cam	2:00 AM	10/12/2021 2:00	Tuesday	98	0
Mun Cam	3:00 AM	10/12/2021 3:00	Tuesday	64	0
Mun Cam	4:00 AM	10/12/2021 4:00	Tuesday	73	0
Mun Cam	5:00 AM	10/12/2021 5:00	Tuesday	120	0
Mun Cam	6:00 AM	10/12/2021 6:00	Tuesday	296	0
Mun Cam	7:00 AM	10/12/2021 7:00	Tuesday	498	0
Mun Cam	8:00 AM	10/12/2021 8:00	Tuesday	527	0
Mun Cam	9:00 AM	10/12/2021 9:00	Tuesday	696	0
Mun Cam	10:00 AM	10/12/2021 10:00	Tuesday	827	0
Mun Cam	11:00 AM	10/12/2021 11:00	Tuesday	888	0

Dashboard


بلدية رام الله
الأكثر حركة
Mun Cam
12,227
نيلسون مانديلا
سيارة يومياً
ميدان الشباب
سيارة يومياً
بشير البرغوثي
سيارة يومياً
اشارة البلدية
3093
سيارة يومياً
ميدان المحطب
سيارة يومياً
ميدان 5 نجوم
سيارة يومياً
بحث
2021-11-27 23:55
2021-11-26 00:00
ساعة الذروة
عدد السيارات
10:00:00 2021-11-26
155
11:00:00 2021-11-26
155
15:00:01 2021-11-26
155
200
150
100
50
0
02:00
04:00
06:00
08:00
10:00
12:00
14:00
16:00
18:00
20:00
22:00
00:00
02:00
04:00
06:00
08:00


Thank you