



# Road Guard System



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## Problem statment ???



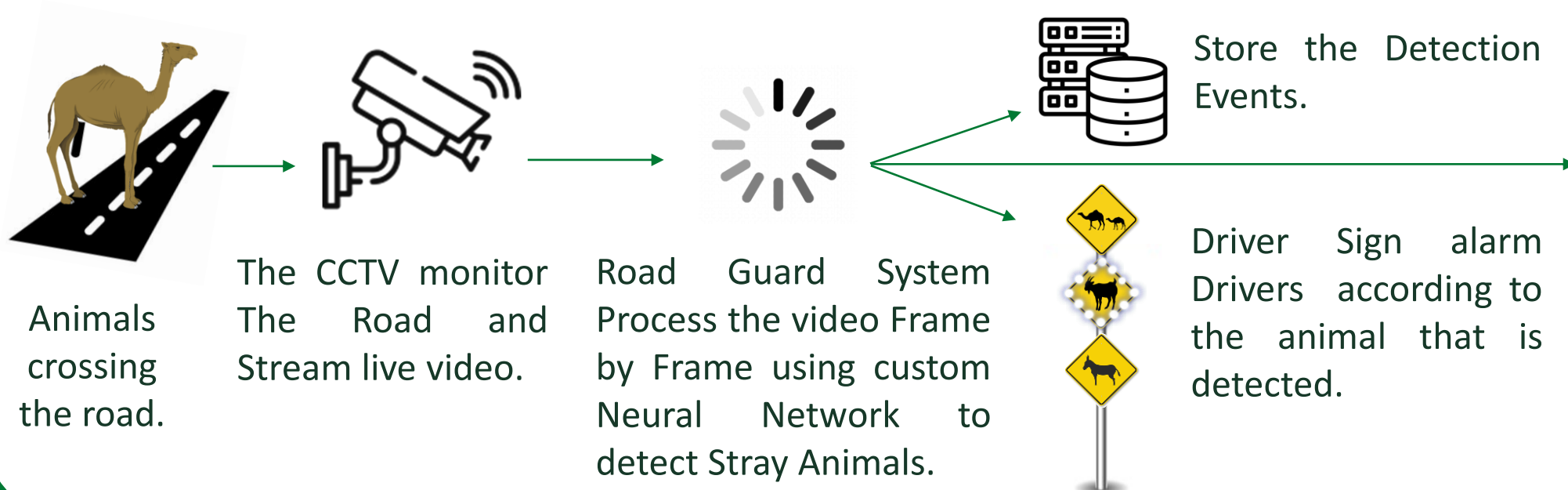
The aim of this project is to develop a system that detects wild animals. The idea is inspired because of the increase in the number of traffic accidents and deaths due wild animals crossing the roads.

## Objectives

- To develop Road Guard controller application.
- To detect the animals a currently.
- To develop driver warning to inform ROP.
- To analysis the data of animals crossing.
- To develop an AI model that can predict accidents caused by animals.

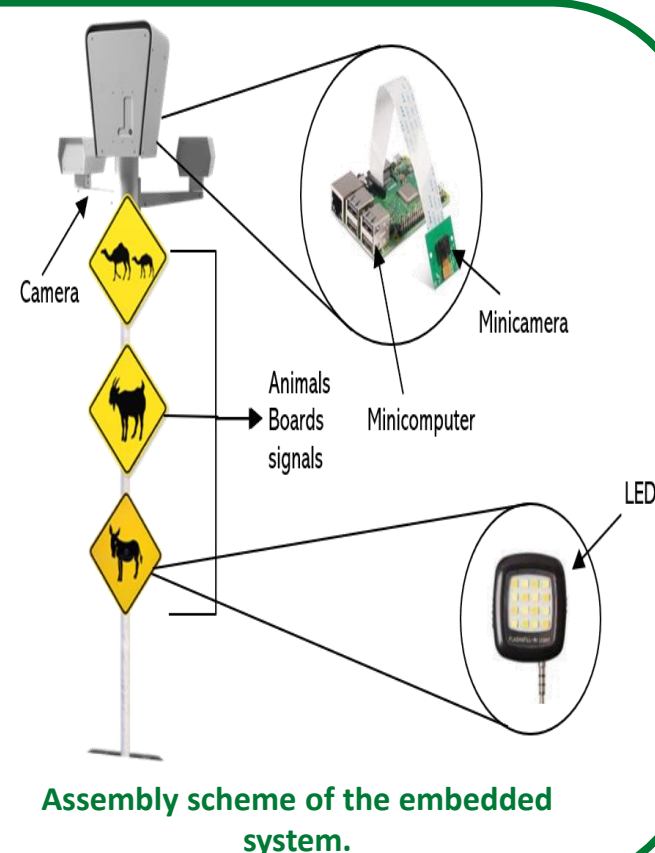
## Methodology & Solution

Road Guard System is developed using Agile Methodology to implement the following solution:



Admin Receives a warning notification and sends a team to the location. This system can show many features like predictions of accidents caused by animals and show analysis of animals that are crossing the road, among other features.

## Result



## Conclusion

- Reducing the number of accidents and deaths due to animals.
- View an analysis of animals with detailed data for the type of animal and the time and location they are monitored on the streets.
- Predict Rate of Accident for each highway by density of wild animals Detection and driver's speed.
- Achieve 2040 Omani vision to enhance the concept of smart cities.

## Tools



## Future upgrades

- Detector vehicle accidents caused by wild animals, then inform the nearest hospital and police station.
- Monitoring the speed of vehicles while detecting animals on the road. If the driver doesn't slow down, a traffic violation will be recorded.