This project is aimed to emulate a system that can help passengers to alert the driver when the driver is not in a good state to drive.

The system in this project is split into 2 parts, a website that allows users to enter their district and a model that can examine if the driver is closing or opening his/her eyes.

The user can input the driver’s district on the website. Then the website would alert passengers if the driver is in a district where many traffic accident happened before.

As for the model. The object detection model is able to detect if the user’s eyes are closing or opening at that moment, if the driver’s eyes are closed for a while, then the passengers can alert the driver.

A Mongo Atlas database is built for this project. the input of the user is stored into a Mongo Atlas database. Other than that, data regarding to the traffic accident rate of 3 districts in Hong Kong each year is also stored in the database, the database will be updated once there is a new traffic accident rate data available.