IDS – first phase

Authors:

- Štefan Pekník – xpekni01
- Jiří Štípek – xstipe02

The assessment

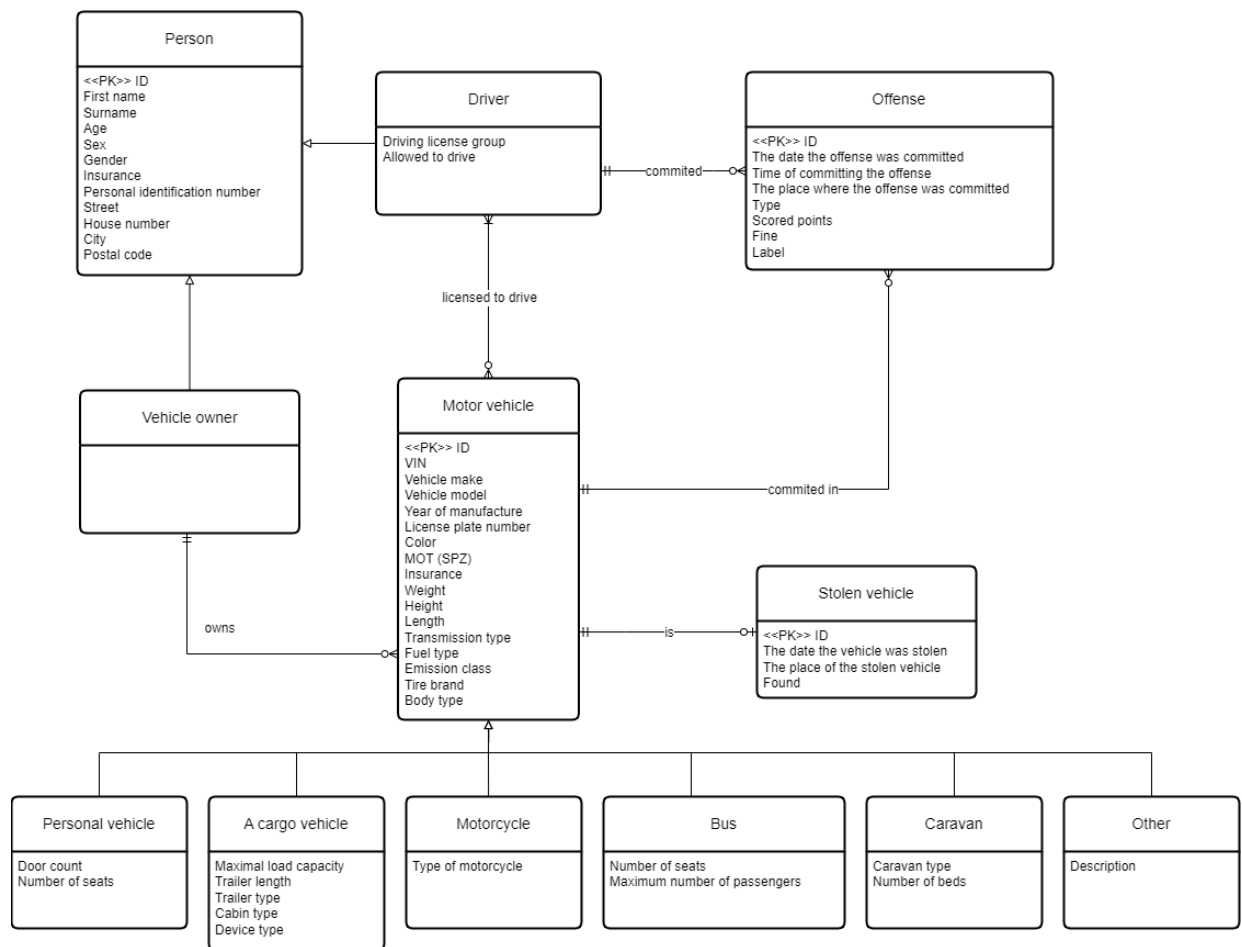We chose to create new ER and use-case diagram from available topics. The topic we chose is *Projekt č.: 36*.

Topic name

Evidence řidičů včetně dopravních přestupků, evidence motorových vozidel.

Description

Navrhněte IS, který eviduje standardní údaje o řidičích a jejich přestupcích. Dále eviduje standardní údaje o motorových vozidlech a umožní ověřování údajů např. na dotaz dopravní policie. Systém obsahuje i evidenci kradených vozidel.
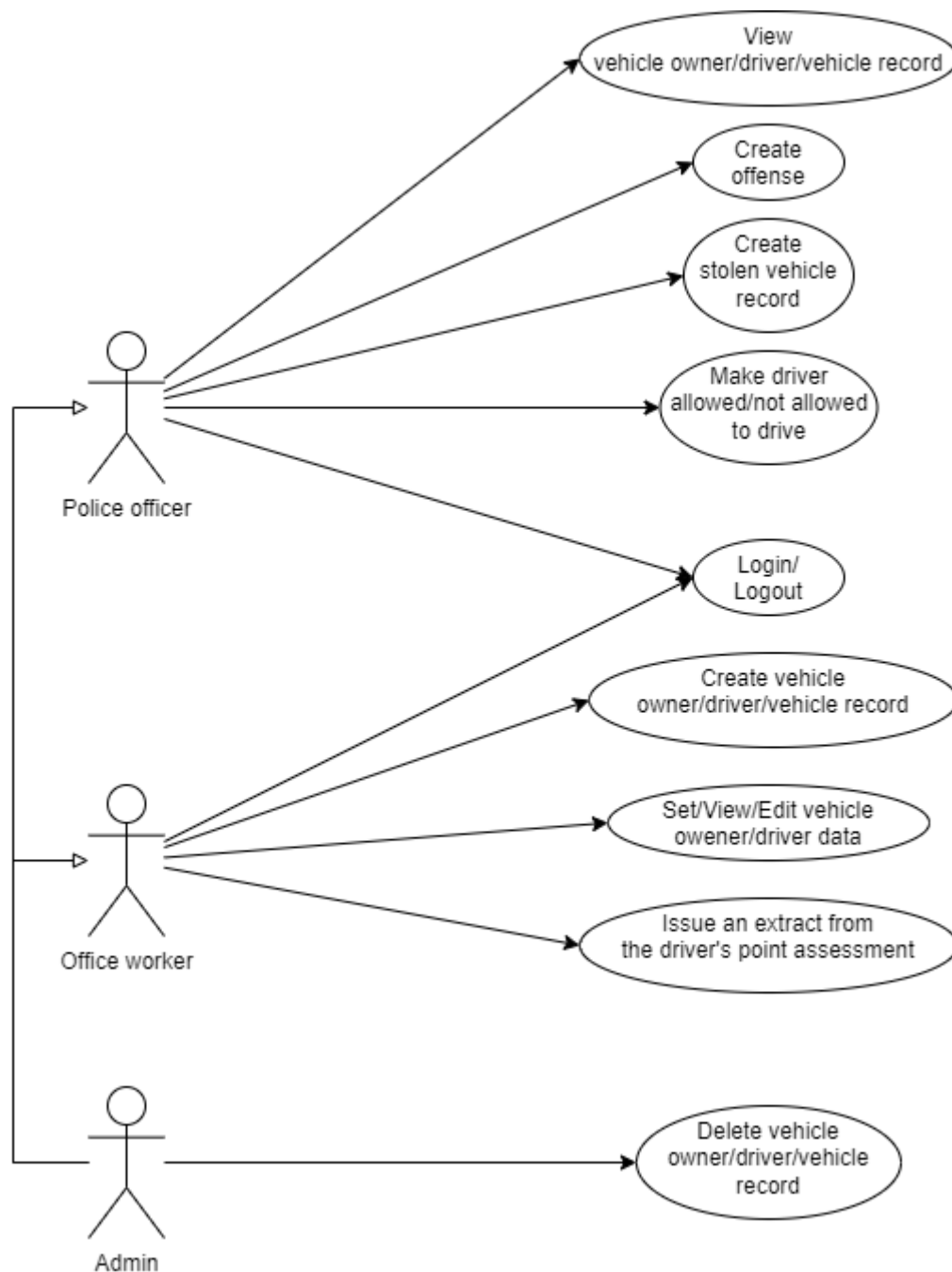
ERD

The diagram consists of 3 main entities, which are *Driver*, *Offense* and *Motor vehicle*.

A driver can commit an offense in a specific motor vehicle and the offense is assigned a number of scored points for such offense. The driver does not have to necessarily be an vehicle owner, so that is why those entities are split into two. In case a driver commits too many offenses or is not licensed yet to drive, he can be not allowed to drive a vehicle.

All motor vehicles have some common attributes, but there are slight differences in them, so we used a generalization and split the motor vehicles into specific groups while all still being considered a motor vehicle. There is also an entity *Other* in case of some special/nonstandard motor vehicle. In case of motor vehicle being stolen a new entity *Stolen vehicle* is created so there is record for it.

Use-case diagram

The system is designed for three types of users:

- police officer – uses the system for validating data given by a driver during a spot check or for updating data or for create a record for a stolen vehicle
- office worker – uses the system to access all the records and is able to issue extracts from the system,
- admin – can access, edit, and use the system in any way.