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**IoT based Traffic management**

* Our goal is to improve car traffic in Iași, collecting real-time data shared by any participant and making it available for anyone using the app. (1)

**Actors:**

* **Personal Car:** traffic participants that drive cars must always respect the rules (such as passing only on green light, giving priority when there is a sign imposing this); (2)

*drive* → drive on the streets (3)

*respectTrafficIndicator* → the driver must pay attention to indicators and respect them

* **Ambulance:** traffic participants that can drive with increased speed when an emergency occurs and people’s lives are at risk;

*drive* (without respecting traffic limitations)

* **Fire Truck:** traffic participants that can also drive with increased speed when a fire starts;

*drive* (without respecting traffic limitations)

* **Police car:**  traffic participants that can also drive with increased speed when an emergency occurs and people’s lives are at risk;

*drive* (without respecting traffic limitations)

* **Traffic sign:**  signs can indicate priority giving/having, the obligation to stop, information about distance to a nearby city;

*giveInstructionsBySigns* → controls traffic using signs

* **Traffic light:** green/yellow/red, where green means go, yellow means slow down and red means don’t pass;

*giveInstructionsByColors* → controls traffic using the three colors

* **Waze:** export data about car accidents and collect real-time information about traffic events (accidents, road blocks);

*exportData/importData* → export/import data

