

Smart Traffic System

A project for embedded electronic engineering lab

Team: MAINZ

Yigitcan Aydin
Syed Rafsan Ishtiaque

Conventional traffic system >> Depends on the decision of the algorithm that most of the times doesn't update itself with respect to the actual condition

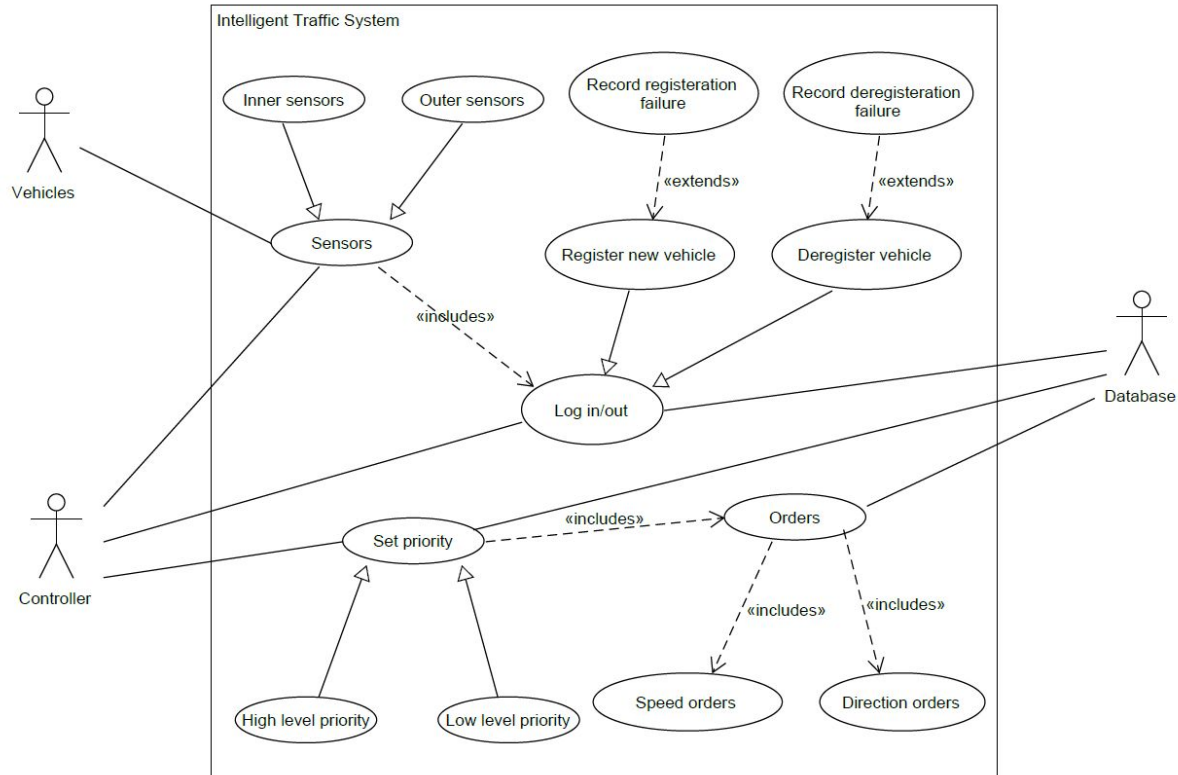
Our project >> Construction of a smart traffic system that can overcome the lacking of the conventional system and make the junction crossing automated

Proposed Algorithm

FIFO (First In First Out) algorithm

Allow the cars pass through the intersection according to their priorities in the FIFO queue

Use Case



UPPAAL Modelling

C++ CODE IMPLEMENTATION

FREERTOS SIMULATION

VHDL IMPLEMENTATION