DCS PROJECT REPORT

TeamMLT

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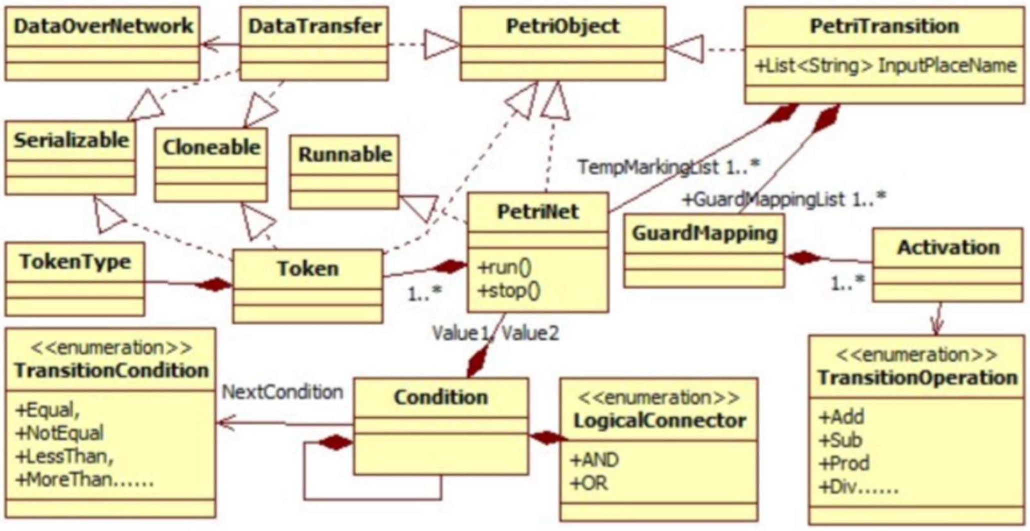
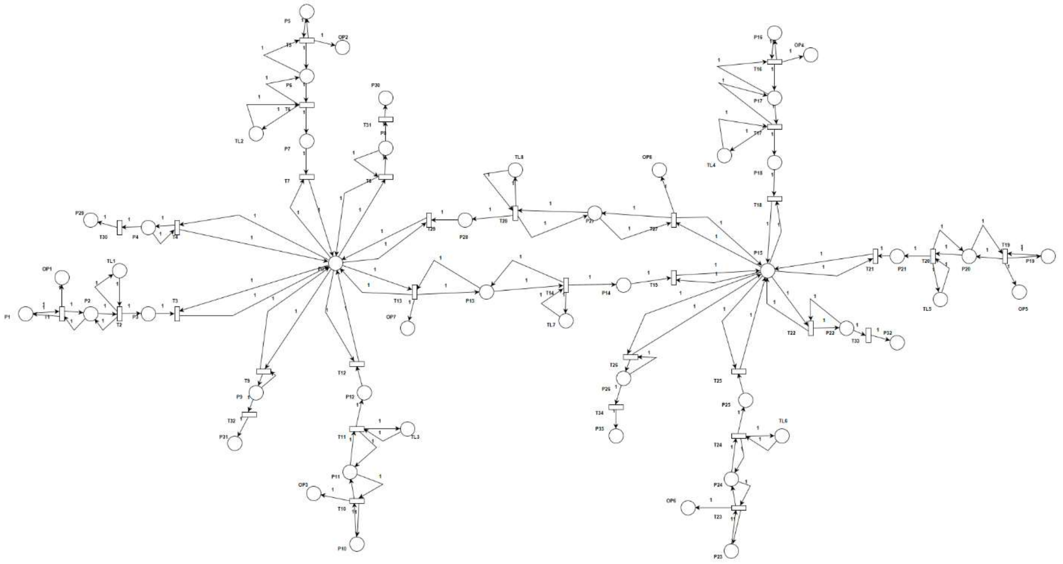
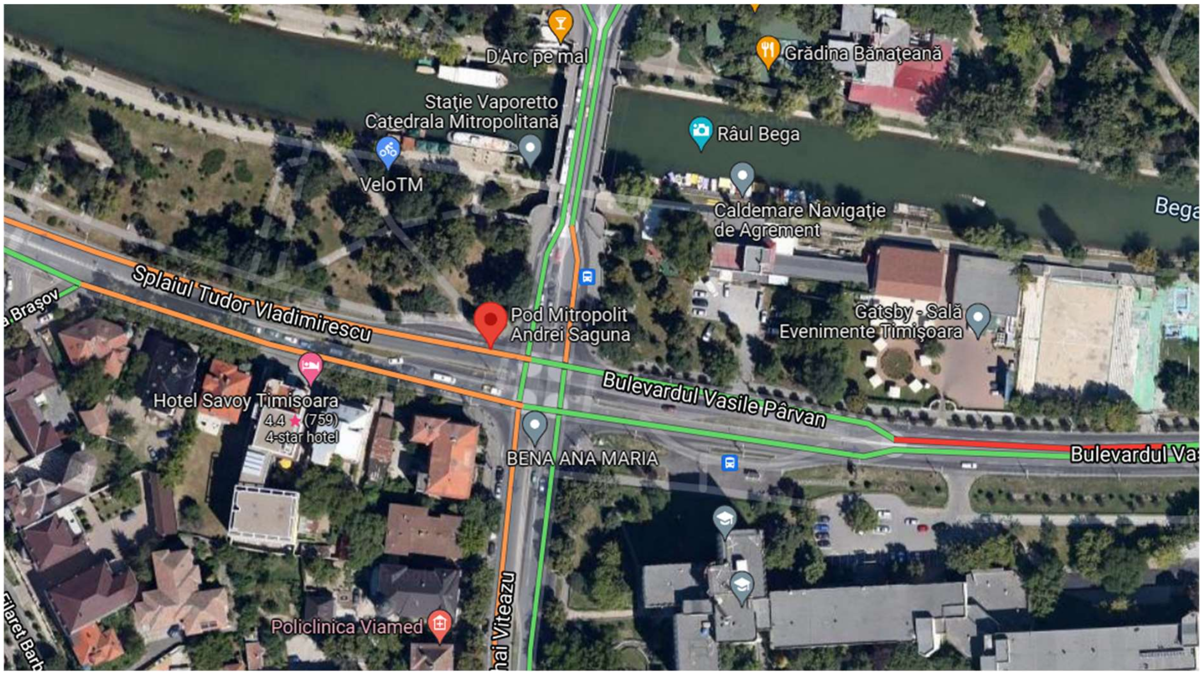
Component diagram for the controllers and the two intersections



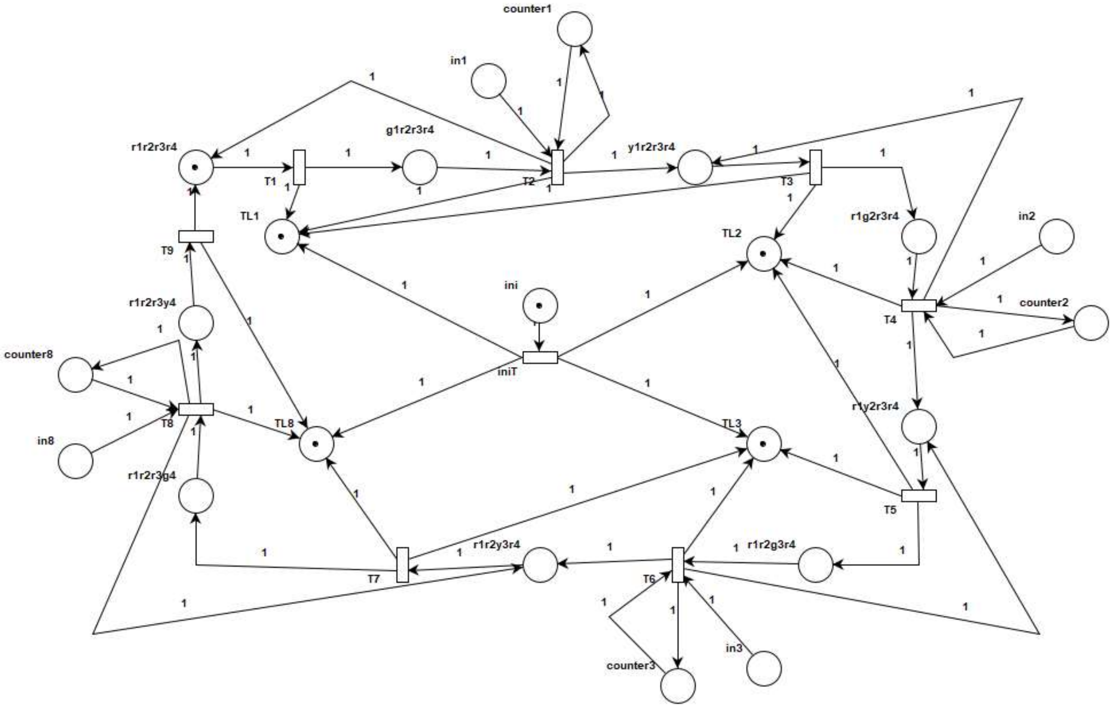
OETPN model for the Lane



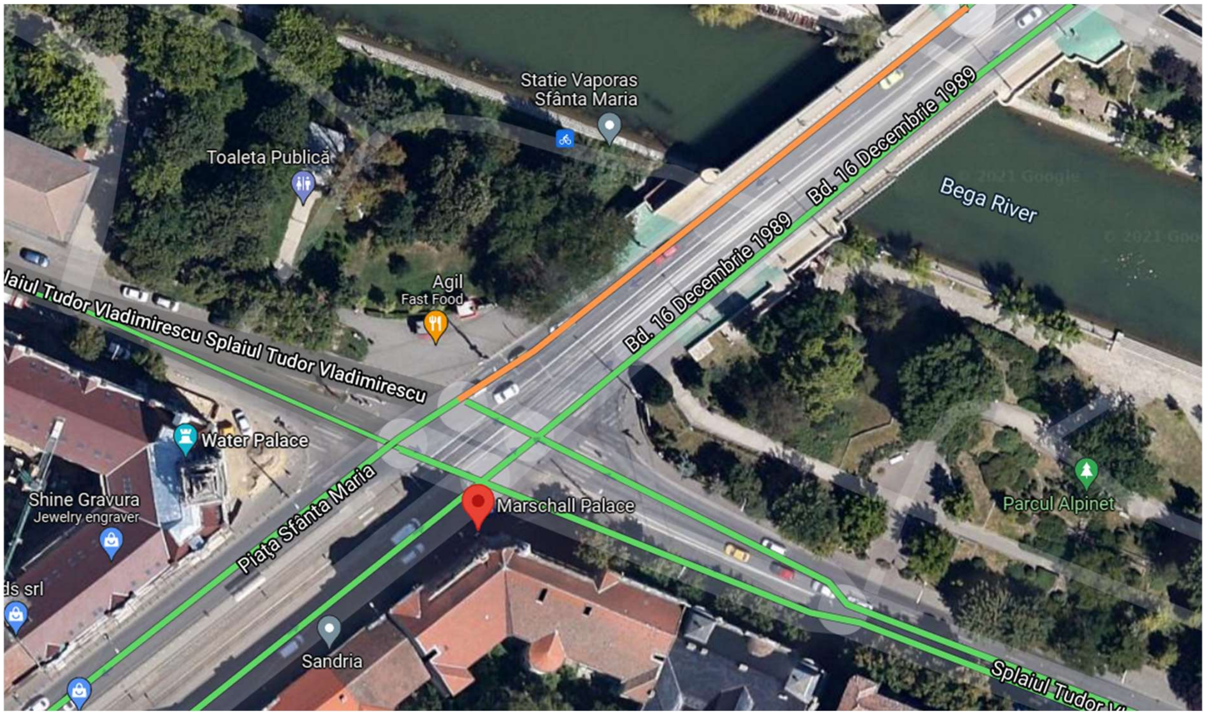
First Intersection: https://goo.gl/maps/PtkgVeWZSktTamR46



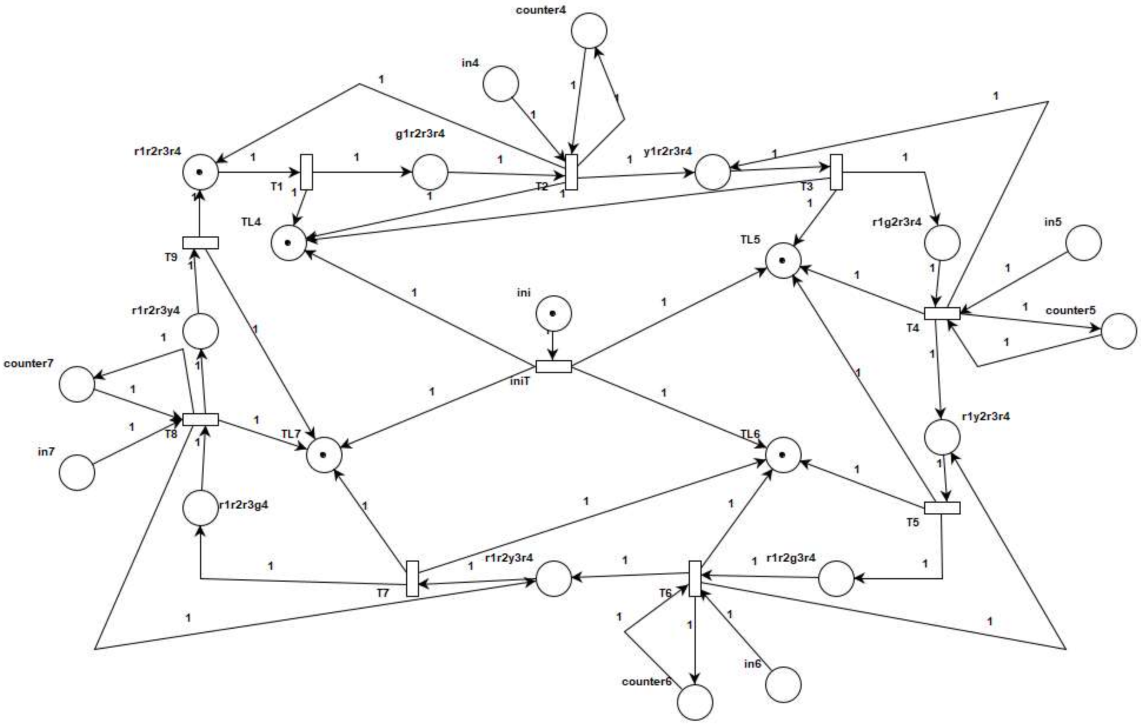
Model for the first intersection



Second Intersection: https://goo.gl/maps/vkYXGj3SUkJQmxsf6



Model for the second intersection



Guard and Mappings

type(P1) = type(P3) = type(P5) = type(P7) = type(P10) = type(P12) = type(P14) = type(P16) = type(P18) = type(P19) = type(P21) = type(P23) = type(P25) = type(P28) = type(29) = type(30) = type(P31) = type(P32) = type(P33) = DataCar

type(P0) = type(P2) = type(P4) = type(P6) = type(P8) = type (P9) = type(P11) = type(P13) = type(P15) = type(P17) = type(P20) =type(P22) = type(P24) = type(P26) = type(P27) = DataCarQueue

type(TL1) = type(TL2) = type(TL3) = type(TL4) = type(TL5) = type(TL6) = type(TL7) = type(TL8) = DataString

type(OP1) = type(OP2) = type(OP3) = type(OP4) = type(OP5) = type(OP6) = type(OP7) = type(OP8) = DataTransfer

grd_1^1 = (P1 NotNull) AND (P2 CanAddCars)

map_1^1 : P1 Add Element P2

grd_1^2 = (P1 NotNull) AND (P2 CanNotAddCars)

map_1^2 : OP1 SendOverNetwork(full)

: P1=P1

grd_2 = (TL1 == green) AND (P2 HaveCar)

map_2 : (P2)PopElementWithoutTarget(P3)

: TL1=TL1

grd_3 = (P3 NotNull) AND (P0 CanAddCars)

map_2 : P3 AddElement P0

grd_4 = (P0 HaveCarForMe) AND (P4 CanAddCars)

map_4 : P0 PopElementWithTargetToQueue P4

grd_5^1 = (P5 NotNull) AND (P6 CanAddCars)

map_5^1 : P5 AddElement P6

grd_5^2 = (P5 NotNull) AND (P6 CanNotAddCars)

map_5^2 : OP2 SendOverNetwork(full)

: P5=P5

grd_6 = (TL2 == green) AND (P6 HaveCar)

map_6 : (P6)PopElementWithoutTarget(P7)

: TL2=TL2

grd_7 = (P7 NotNull) AND (P0 CanAddCars)

map_7 : P7 AddElement P0

grd_8 = (P0 HaveCarForMe) AND (P8 CanAddCars)

map_8 : P0 PopElementWithTargetToQueue P8

grd_9 = (P0 HaveCarForMe) AND (P9 CanAddCars)

map_9 : P0 PopElementWithTargetToQueue P9

grd_{10}^1 = (P10 NotNull) AND (P11 CanAddCars)

map_{10}^1 : P10 Add Element P11

grd_{10}^2 = (P10 NotNull) AND (P11 CanNotAddCars)

map_{10}^2 : OP3 SendOverNetwork(full)

: P10=P10

grd_{11} = (TL3 == green) AND (P11 HaveCar)

map_{11} : (P11)PopElementWithoutTarget(P12)

: TL3=TL3

grd_{12} = (P12 != null) AND (P0 CanAddCars)

map_{12} : P0+=P12

grd_{13}^1 = (P0 HaveCar) AND (P13 CanAddCars)

map_{13}^1 : P13=PopElementWithTargetToQueue(P0)

grd_{13}^2 = (P0 != null) AND (P13 CanNotAddCars)

map_{13}^2 : OP7=SendOverNetwork(full)

: P0=P0

grd_{14} = (TL7 == green) AND (P13 HaveCar)

map_{14} : P14=PopElementWithoutTarget(P13)

: TL7=TL7

grd_{15} = (P14 != null) AND (P15 CanAddCars)

map_{15} : P15+=P14

grd_{16}^1 = (P16 != null) AND (P17 CanAddCars)

map_{16}^1 : P17+=P16

grd_{16}^2 = (P16 != null) AND (P17 CanNotAddCars)

map_{16}^{2} : OP4=SendOverNetwork(full)

: P16=P16

grd_{17} = (TL4 == green) AND (P17 HaveCar)

map_{17} : P18=PopElementWithoutTarget(P17)

: TL4=TL4

grd_{18} = (P18 != null) AND (P15 CanAddCars)

map_{18} : P15+=P18

grd_{19}^{1} = (P19 != null) AND (P20 CanAddCars)

map_{19}^{1} : P20+=P19

grd_{19}^{2} = (P19 != null) AND (P20 CanNotAddCars)

map_{19}^{2} : OP5=SendOverNetwork(full)

: P19=P19

grd_{20} = (TL5 == green) AND (P20 HaveCar)

map_{20} : P21=PopElementWithoutTarget(P20)

: TL5=TL5

grd_{21} = (P21 != null) AND (P15 CanAddCars)

map_{21} : P15+=P21

grd_{22} = (P15 HaveCarForMe) AND (P22 CanAddCars)

map_{22} : P22=PopElementWithTargetToQueue(P15)

grd_{23}^{1} = (P23 != null) AND (P24 CanAddCars)

map_{23}^{1} : P24+=P23

grd_{23}^{2} = (P23 != null) AND (P24 CanNotAddCars)

map_{23}^{2} : OP6=SendOverNetwork(full)

: P23=P23

grd_{24} = (TL6 Equal green) AND (P24 HaveCar)

map_{24} : (P24 PopElementWithoutTarget P25) AND (TL6 Move TL6)

grd_{25} = (P15 CanAddCars) AND (P25 NotNull)

map_{25} : (P25 AddElement P15)

grd_{26} = (P15 HaveCarForMe) AND (P26 CanAddCars)

map_{26} : (P15 PopElementWithTargetToQueue P26)

grd_{27}^{1}= (P15 HaveCar) AND (P27 CanAddCars)

map_{27}^{1} : (P15 PopElementWithTargetToQueue P27)

grd_{27}^{2}= (P15 NotNull) AND (P27 CanNotAddCars)

map_{27}^{2} : (full SendOverNetwork OP8) AND (P15 Move P15)

grd_{28} = (TL7 = green) AND (P27 HaveCar)

map_{28} : (P27 PopElementWithoutTarget P28) AND (TL8 Move TL8)

grd_{29} = (P0 CanAddCars) AND (P28 NotNull)

map_{29} : (P28 AddElement P0)

grd_{30} = (P4 HaveCar)

map_{30} : (P4 PopElementWithoutTarget P29)

grd_{31} = (P8 HaveCar)

map_{31} : (P8 PopElementWithoutTarget P30)

grd_{32} = (P9 HaveCar)

map_{32} : (P9 PopElementWithoutTarget P31)

grd_{33} = (P22 HaveCar)

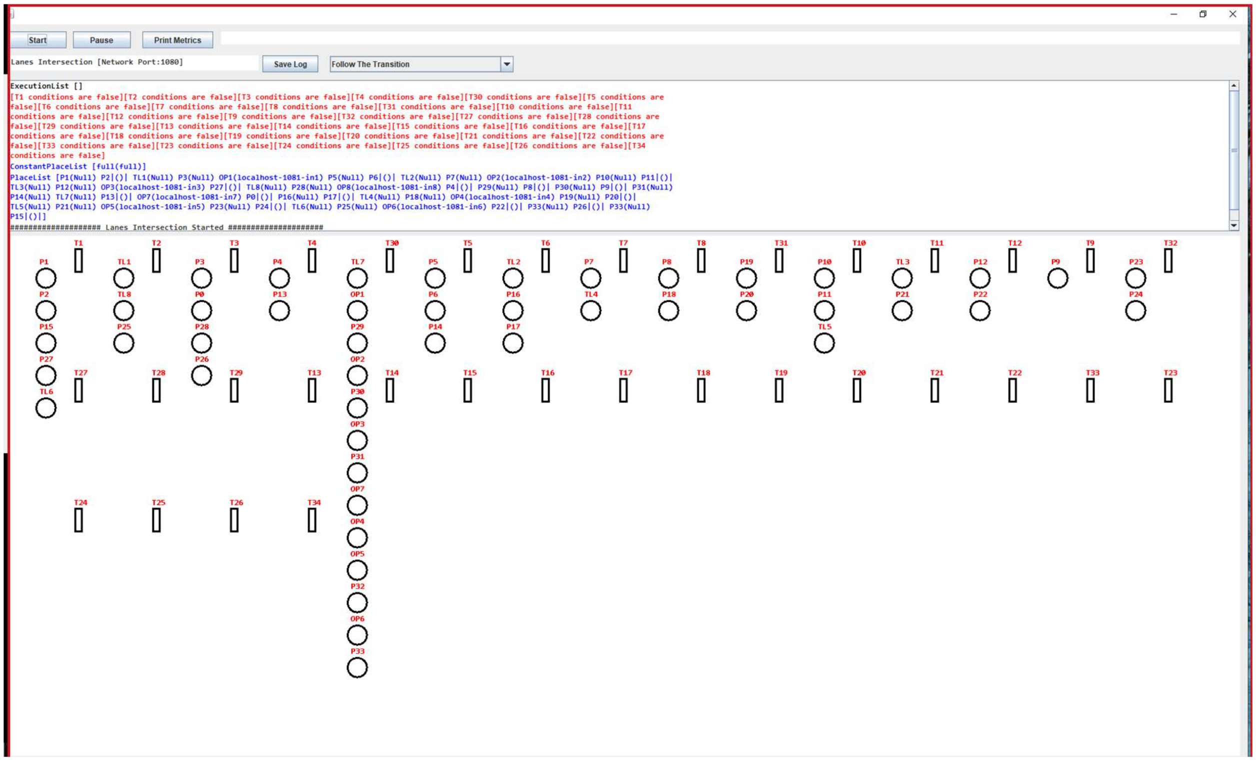
map_{33} : (P22 PopElementWithoutTarget P32)

grd_{34} = (P26 HaveCar)

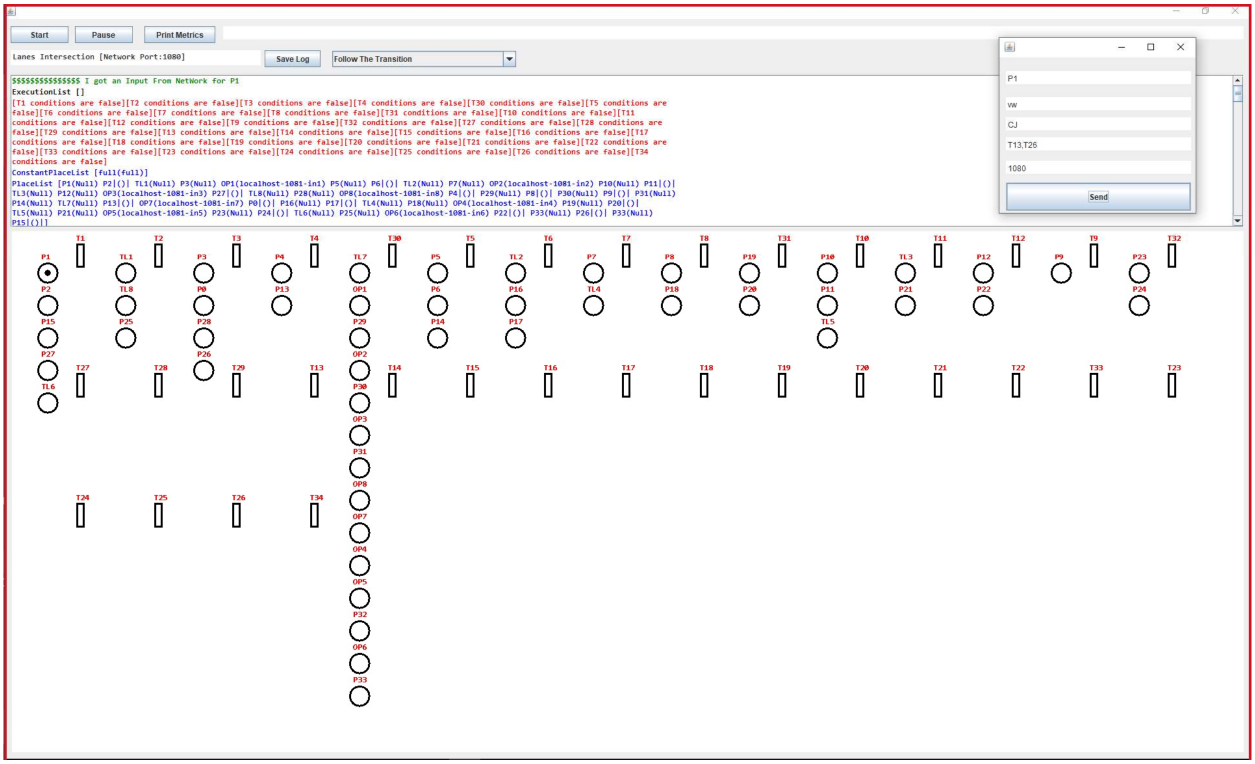
map_{34} : (P26 PopElementWithoutTarget P33)

Screenshots while running the experiment

Tracing a car going through the first intersection to the output lane of the second intersection

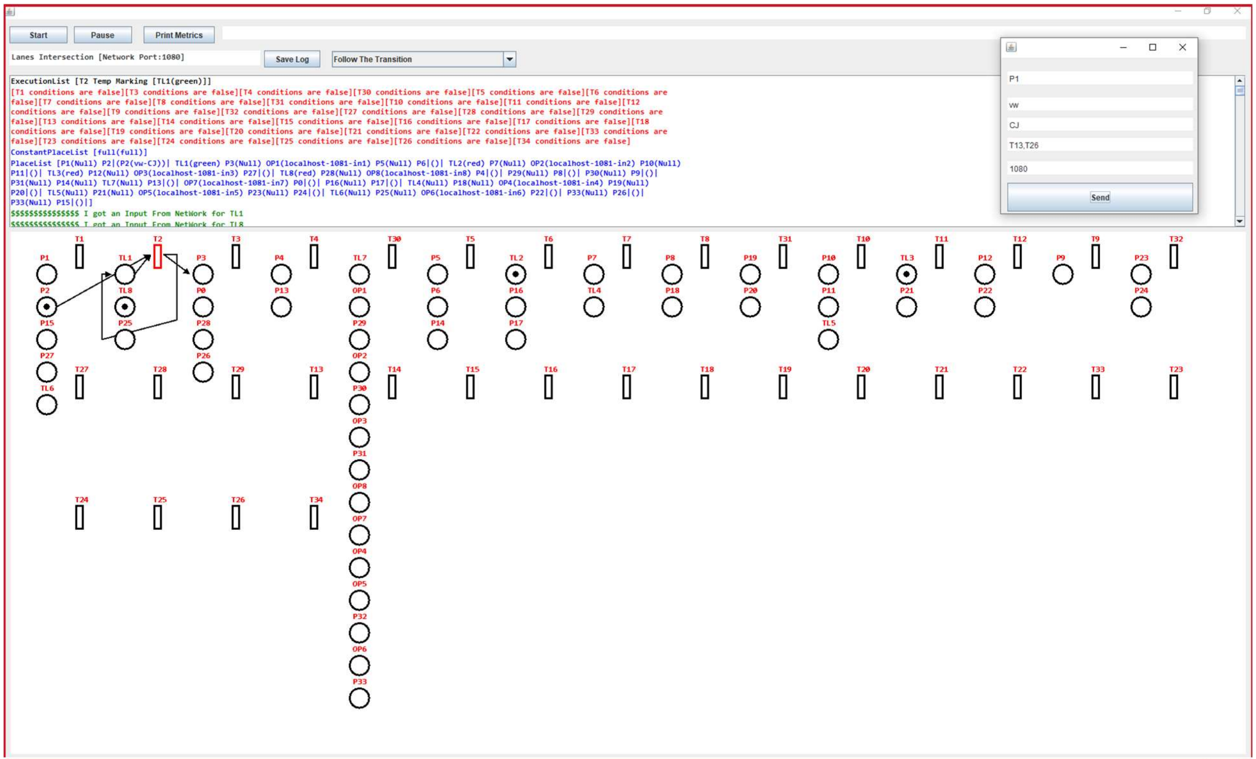


```
Lanes Intersection [Network Port:1080]
ExecutionList []
[T1 conditions are false][T2 conditions are false][T3 conditions are false][T4 conditions are false][T30 conditions are false][T5 conditions are
false][T6 conditions are false][T7 conditions are false][T8 conditions are false][T31 conditions are false][T10 conditions are false][T11
conditions are false][T12 conditions are false][T9 conditions are false][T32 conditions are false][T27 conditions are false][T28 conditions are
false][T29 conditions are false][T13 conditions are false][T14 conditions are false][T15 conditions are false][T16 conditions are false][T17
conditions are false][T18 conditions are false][T19 conditions are false][T20 conditions are false][T21 conditions are false][T22 conditions are
false][T33 conditions are false][T23 conditions are false][T24 conditions are false][T25 conditions are false][T26 conditions are false][T34
conditions are false]
ConstantPlaceList [full(full)]
PlaceList [P1(Null) P2|()| TL1(Null) P3(Null) OP1(localhost-1081-in1) P5(Null) P6|()| TL2(Null) P7(Null) OP2(localhost-1081-in2) P10(Null) P11|()|
TL3(Null) P12(Null) OP3(localhost-1081-in3) P27|()| TL8(Null) P28(Null) OP8(localhost-1081-in8) P4|()| P29(Null) P8|()| P30(Null) P9|()| P31(Null)
P14(Null) TL7(Null) P13|()| OP7(localhost-1081-in7) P0|()| P16(Null) P17|()| TL4(Null) P18(Null) OP4(localhost-1081-in4) P19(Null) P20|()|
TL5(Null) P21(Null) OP5(localhost-1081-in5) P23(Null) P24|()| TL6(Null) P25(Null) OP6(localhost-1081-in6) P22|()| P33(Null) P26|()| P33(Null)
P15|()|]
#################### Lanes Intersection Started #####################
```



```
Lanes Intersection [Network Port:1080]
$$$$$$$$$$$$$$$ I got an Input From NetWork for P1
ExecutionList []
[T1 conditions are false][T2 conditions are false][T3 conditions are false][T4 conditions are false][T30 conditions are false][T5 conditions are
false][T6 conditions are false][T7 conditions are false][T8 conditions are false][T31 conditions are false][T10 conditions are false][T11
conditions are false][T12 conditions are false][T9 conditions are false][T32 conditions are false][T27 conditions are false][T28 conditions are
false][T29 conditions are false][T13 conditions are false][T14 conditions are false][T15 conditions are false][T16 conditions are false][T17
conditions are false][T18 conditions are false][T19 conditions are false][T20 conditions are false][T21 conditions are false][T22 conditions are
false][T33 conditions are false][T23 conditions are false][T24 conditions are false][T25 conditions are false][T26 conditions are false][T34
conditions are false]
ConstantPlaceList [full(full)]
PlaceList [P1(Null) P2|()| TL1(Null) P3(Null) OP1(localhost-1081-in1) P5(Null) P6|()| TL2(Null) P7(Null) OP2(localhost-1081-in2) P10(Null) P11|()|
TL3(Null) P12(Null) OP3(localhost-1081-in3) P27|()| TL8(Null) P28(Null) OP8(localhost-1081-in8) P4|()| P29(Null) P8|()| P30(Null) P9|()| P31(Null)
P14(Null) TL7(Null) P13|()| OP7(localhost-1081-in7) P0|()| P16(Null) P17|()| TL4(Null) P18(Null) OP4(localhost-1081-in4) P19(Null) P20|()|
TL5(Null) P21(Null) OP5(localhost-1081-in5) P23(Null) P24|()| TL6(Null) P25(Null) OP6(localhost-1081-in6) P22|()| P33(Null) P26|()| P33(Null)
P15|()|]
```

```
P1
vw
CJ
T13,T26
1080
```



Lanes Intersection [Network Port:1080]

Follow The Transition

```
ExecutionList [T2 Temp Marking [TL1(green)]]
[T1 conditions are false][T3 conditions are false][T4 conditions are false][T30 conditions are false][T5 conditions are false][T6 conditions are
false][T7 conditions are false][T8 conditions are false][T31 conditions are false][T10 conditions are false][T11 conditions are false][T12
conditions are false][T9 conditions are false][T32 conditions are false][T27 conditions are false][T28 conditions are false][T29 conditions are
false][T13 conditions are false][T14 conditions are false][T15 conditions are false][T16 conditions are false][T17 conditions are false][T18
conditions are false][T19 conditions are false][T20 conditions are false][T21 conditions are false][T22 conditions are false][T33 conditions are
false][T23 conditions are false][T24 conditions are false][T25 conditions are false][T26 conditions are false][T34 conditions are false]
ConstantPlaceList [full(full)]
PlaceList [P1(Null) P2|(P2(vw-CJ))| TL1(green) P3(Null) OP1(localhost-1081-in1) P5(Null) P6|()| TL2(red) P7(Null) OP2(localhost-1081-in2) P10(Null)
P11|()| TL3(red) P12(Null) OP3(localhost-1081-in3) P27|()| TL8(red) P28(Null) OP8(localhost-1081-in8) P4|()| P29(Null) P8|()| P30(Null) P9|()|
P31(Null) P14(Null) TL7(Null) P13|()| OP7(localhost-1081-in7) P0|()| P16(Null) P17|()| TL4(Null) P18(Null) OP4(localhost-1081-in4) P19(Null)
P20|()| TL5(Null) P21(Null) OP5(localhost-1081-in5) P23(Null) P24|()| TL6(Null) P25(Null) OP6(localhost-1081-in6) P22|()| P33(Null) P26|()|
P33(Null) P15|()|]
$$$$$$$$$$$$$$$$ I got an Input From NetWork for TL1
$$$$$$$$$$$$$$$$ I got an Input From NetWork for TL8
```

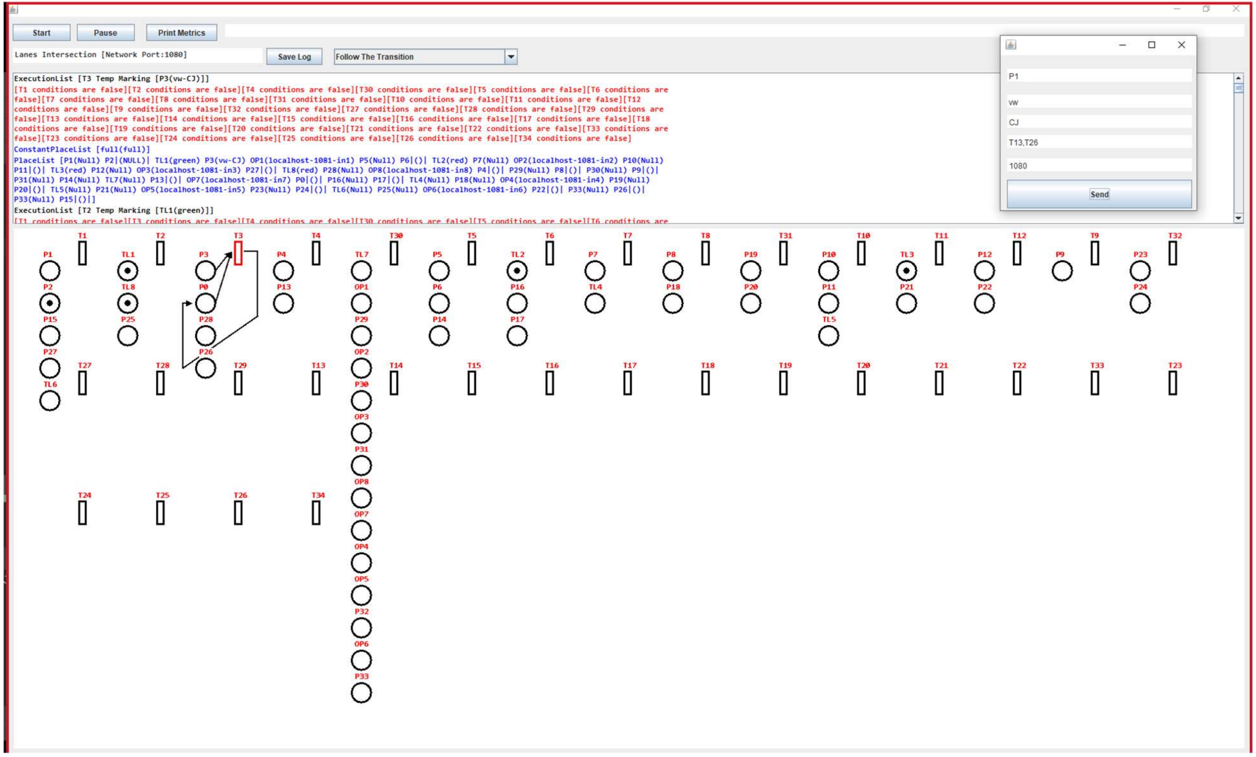
P1

vw

CJ

T13,T26

1080



Lanes Intersection [Network Port:1080]

Follow The Transition

```
ExecutionList [T3 Temp Marking [P3(vw-CJ)]]
[T1 conditions are false][T2 conditions are false][T4 conditions are false][T30 conditions are false][T5 conditions are false][T6 conditions are
false][T7 conditions are false][T8 conditions are false][T31 conditions are false][T10 conditions are false][T11 conditions are false][T12
conditions are false][T9 conditions are false][T32 conditions are false][T27 conditions are false][T28 conditions are false][T29 conditions are
false][T13 conditions are false][T14 conditions are false][T15 conditions are false][T16 conditions are false][T17 conditions are false][T18
conditions are false][T19 conditions are false][T20 conditions are false][T21 conditions are false][T22 conditions are false][T33 conditions are
false][T23 conditions are false][T24 conditions are false][T25 conditions are false][T26 conditions are false][T34 conditions are false]
ConstantPlaceList [full(full)]
PlaceList [P1(Null) P2|(NULL)| TL1(green) P3(vw-CJ) OP1(localhost-1081-in1) P5(Null) P6|()| TL2(red) P7(Null) OP2(localhost-1081-in2) P10(Null)
P11|()| TL3(red) P12(Null) OP3(localhost-1081-in3) P27|()| TL8(red) P28(Null) OP8(localhost-1081-in8) P4|()| P29(Null) P8|()| P30(Null) P9|()|
P31(Null) P14(Null) TL7(Null) P13|()| OP7(localhost-1081-in7) P0|()| P16(Null) P17|()| TL4(Null) P18(Null) OP4(localhost-1081-in4) P19(Null)
P20|()| TL5(Null) P21(Null) OP5(localhost-1081-in5) P23(Null) P24|()| TL6(Null) P25(Null) OP6(localhost-1081-in6) P22|()| P33(Null) P26|()|
P33(Null) P15|()|]
ExecutionList [T2 Temp Marking [TL1(green)]]
[T1 conditions are false][T3 conditions are false][T4 conditions are false][T30 conditions are false][T5 conditions are false][T6 conditions are
```

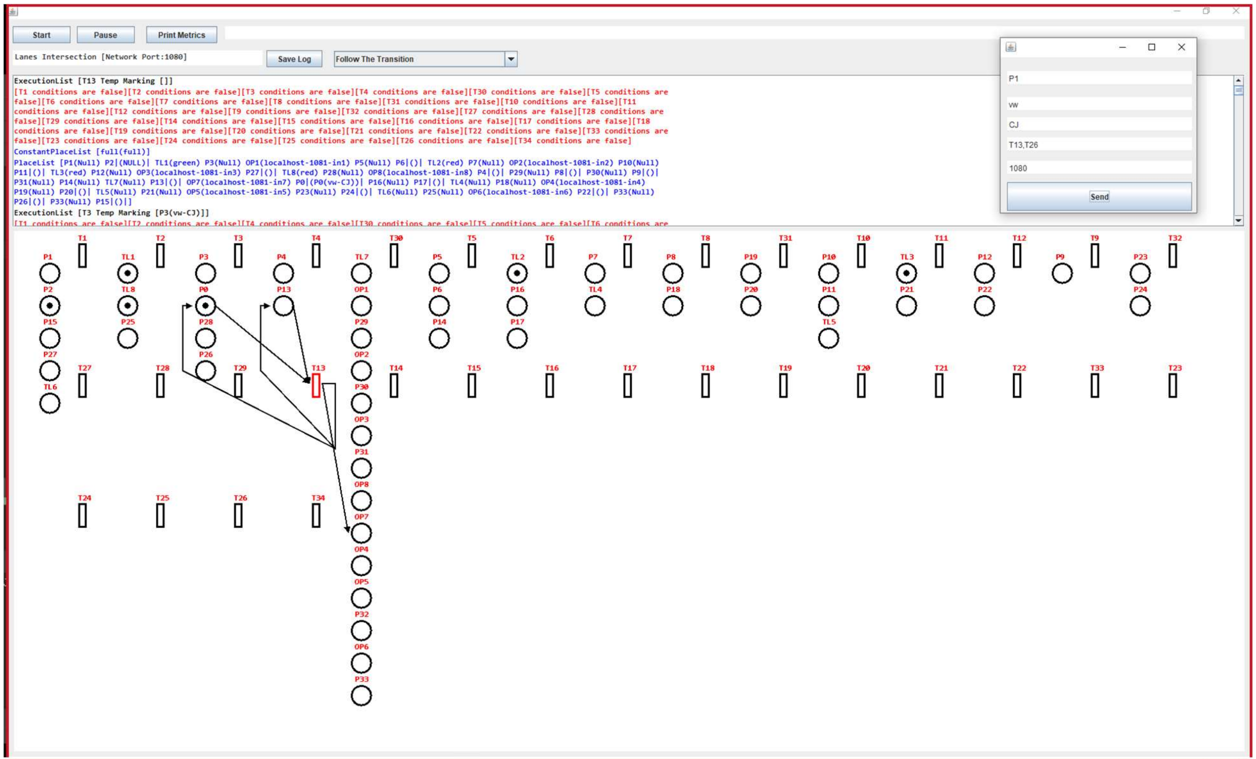
P1

vw

CJ

T13,T26

1080



Lanes Intersection [Network Port:1080]

P1

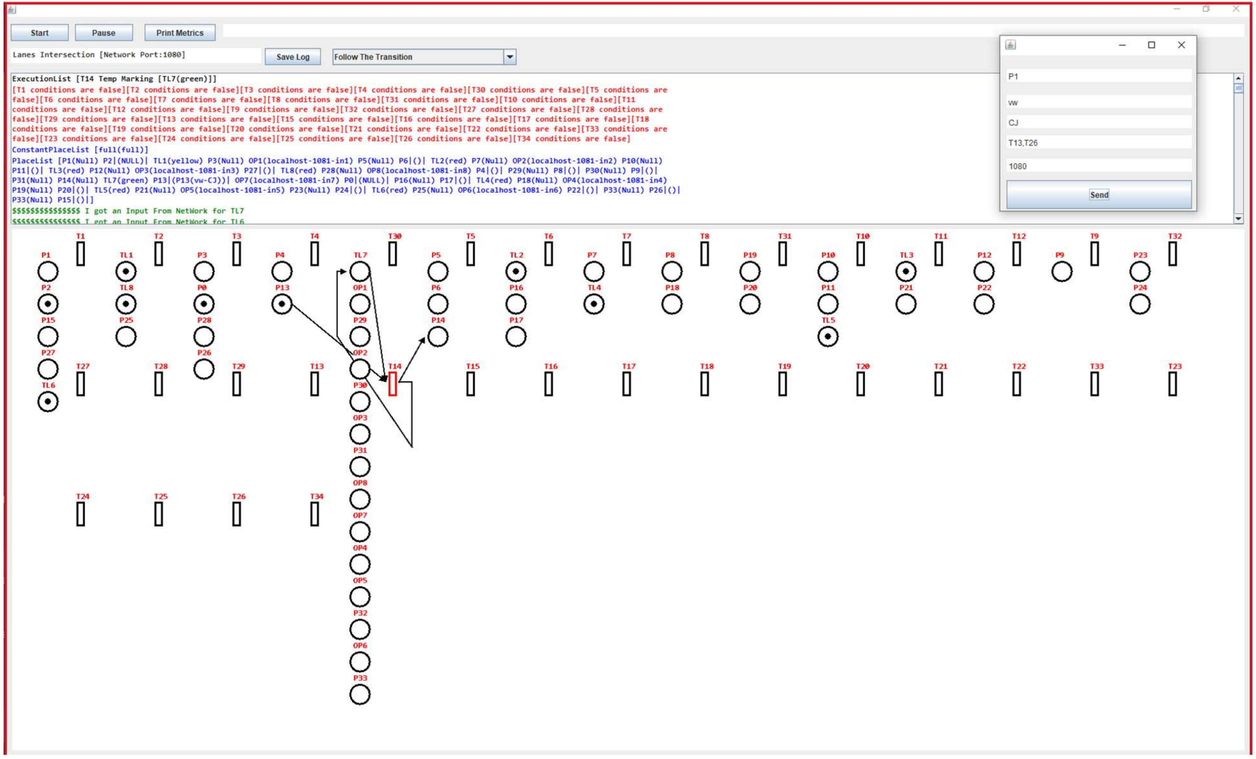
vw

CJ

T13,T26

1080

```
ExecutionList [T13 Temp Marking []]
[T1 conditions are false][T2 conditions are false][T3 conditions are false][T4 conditions are false][T30 conditions are false][T5 conditions are
false][T6 conditions are false][T7 conditions are false][T8 conditions are false][T31 conditions are false][T10 conditions are false][T11
conditions are false][T12 conditions are false][T9 conditions are false][T32 conditions are false][T27 conditions are false][T28 conditions are
false][T29 conditions are false][T14 conditions are false][T15 conditions are false][T16 conditions are false][T17 conditions are false][T18
conditions are false][T19 conditions are false][T20 conditions are false][T21 conditions are false][T22 conditions are false][T33 conditions are
false][T23 conditions are false][T24 conditions are false][T25 conditions are false][T26 conditions are false][T34 conditions are false]
ConstantPlaceList [full(full)]
PlaceList [P1(Null) P2|(NULL)| TL1(green) P3(Null) OP1(localhost-1081-in1) P5(Null) P6|()| TL2(red) P7(Null) OP2(localhost-1081-in2) P10(Null)
P11|()| TL3(red) P12(Null) OP3(localhost-1081-in3) P27|()| TL8(red) P28(Null) OP8(localhost-1081-in8) P4|()| P29(Null) P8|()| P30(Null) P9|()|
P31(Null) P14(Null) TL7(Null) P13|()| OP7(localhost-1081-in7) P0|(P0(vw-CJ))| P16(Null) P17|()| TL4(Null) P18(Null) OP4(localhost-1081-in4)
P19(Null) P20|()| TL5(Null) P21(Null) OP5(localhost-1081-in5) P23(Null) P24|()| TL6(Null) P25(Null) OP6(localhost-1081-in6) P22|()| P33(Null)
P26|()| P33(Null) P15|()|]
ExecutionList [T3 Temp Marking [P3(vw-CJ)]]
[T1 conditions are false][T2 conditions are false][T4 conditions are false][T30 conditions are false][T5 conditions are false][T6 conditions are
```



Lanes Intersection [Network Port:1080]

P1

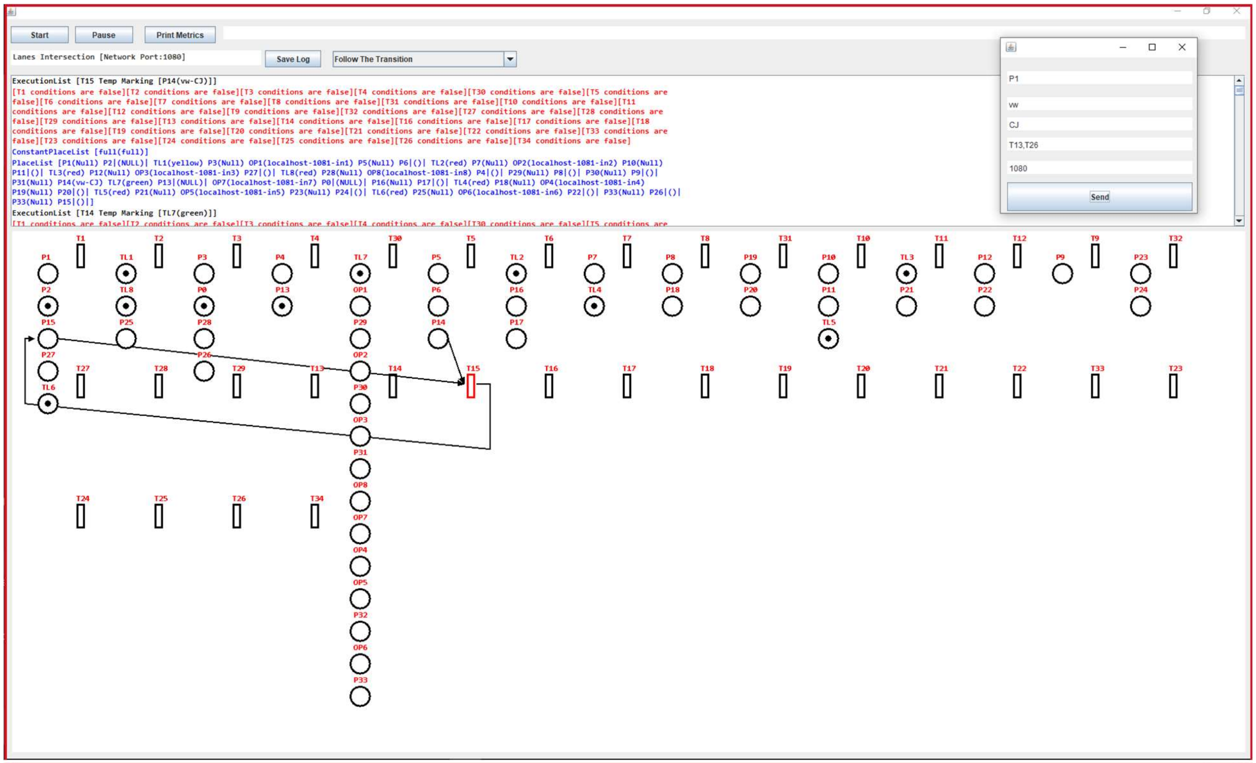
vw

CJ

T13,T26

1080

```
ExecutionList [T14 Temp Marking [TL7(green)]]
[T1 conditions are false][T2 conditions are false][T3 conditions are false][T4 conditions are false][T30 conditions are false][T5 conditions are
false][T6 conditions are false][T7 conditions are false][T8 conditions are false][T31 conditions are false][T10 conditions are false][T11
conditions are false][T12 conditions are false][T9 conditions are false][T32 conditions are false][T27 conditions are false][T28 conditions are
false][T29 conditions are false][T13 conditions are false][T15 conditions are false][T16 conditions are false][T17 conditions are false][T18
conditions are false][T19 conditions are false][T20 conditions are false][T21 conditions are false][T22 conditions are false][T33 conditions are
false][T23 conditions are false][T24 conditions are false][T25 conditions are false][T26 conditions are false][T34 conditions are false]
ConstantPlaceList [full(full)]
PlaceList [P1(Null) P2|(NULL)| TL1(yellow) P3(Null) OP1(localhost-1081-in1) P5(Null) P6|()| TL2(red) P7(Null) OP2(localhost-1081-in2) P10(Null)
P11|()| TL3(red) P12(Null) OP3(localhost-1081-in3) P27|()| TL8(red) P28(Null) OP8(localhost-1081-in8) P4|()| P29(Null) P8|()| P30(Null) P9|()|
P31(Null) P14(Null) TL7(green) P13|(P13(vw-CJ))| OP7(localhost-1081-in7) P0|(NULL)| P16(Null) P17|()| TL4(red) P18(Null) OP4(localhost-1081-in4)
P19(Null) P20|()| TL5(red) P21(Null) OP5(localhost-1081-in5) P23(Null) P24|()| TL6(red) P25(Null) OP6(localhost-1081-in6) P22|()| P33(Null) P26|()|
P33(Null) P15|()|]
$$$$$$$$$$$$$$$$ I got an Input From NetWork for TL7
$$$$$$$$$$$$$$$$ I got an Input From NetWork for TL6
```



Lanes Intersection [Network Port:1080]

Follow The Transition

P1

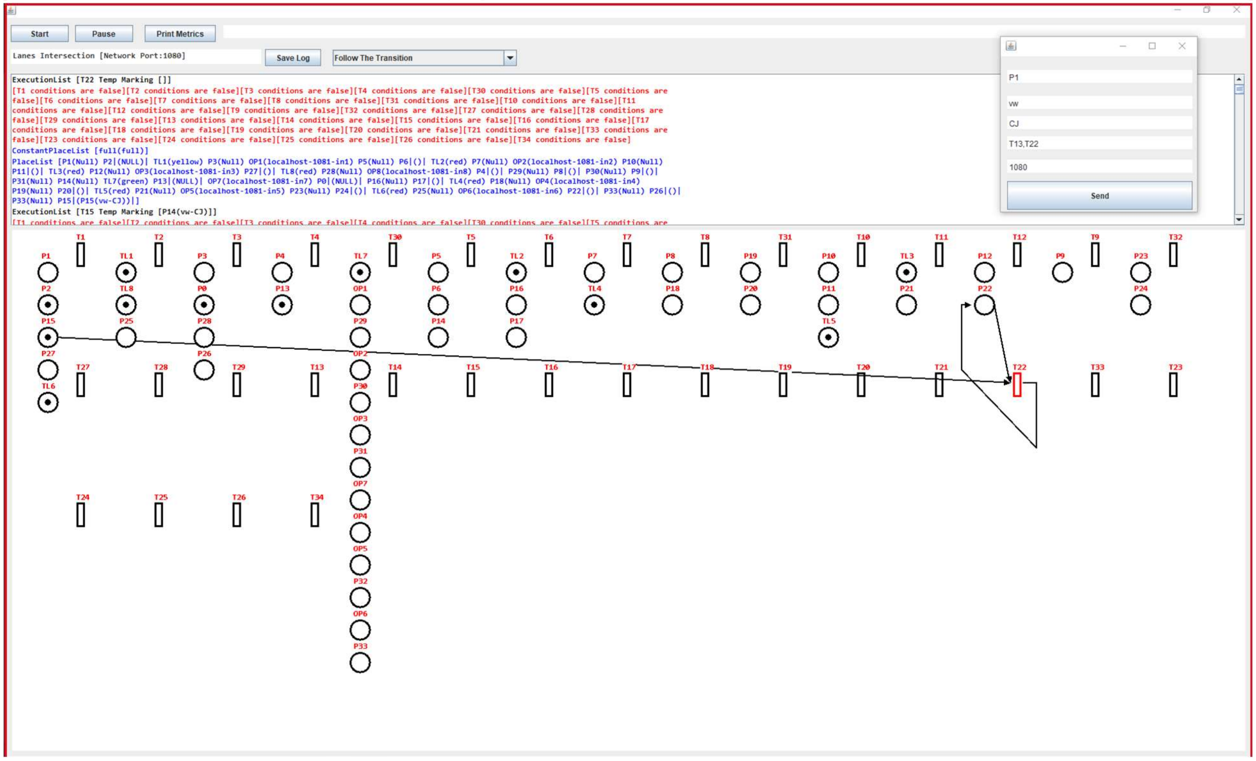
vw

CJ

T13,T26

1080

```
ExecutionList [T15 Temp Marking [P14(vw-CJ)]]
[T1 conditions are false][T2 conditions are false][T3 conditions are false][T4 conditions are false][T30 conditions are false][T5 conditions are
false][T6 conditions are false][T7 conditions are false][T8 conditions are false][T31 conditions are false][T10 conditions are false][T11
conditions are false][T12 conditions are false][T9 conditions are false][T32 conditions are false][T27 conditions are false][T28 conditions are
false][T29 conditions are false][T13 conditions are false][T14 conditions are false][T16 conditions are false][T17 conditions are false][T18
conditions are false][T19 conditions are false][T20 conditions are false][T21 conditions are false][T22 conditions are false][T33 conditions are
false][T23 conditions are false][T24 conditions are false][T25 conditions are false][T26 conditions are false][T34 conditions are false]
ConstantPlaceList [full(full)]
PlaceList [P1(Null) P2|(NULL)| TL1(yellow) P3(Null) OP1(localhost-1081-in1) P5(Null) P6|()| TL2(red) P7(Null) OP2(localhost-1081-in2) P10(Null)
P11|()| TL3(red) P12(Null) OP3(localhost-1081-in3) P27|()| TL8(red) P28(Null) OP8(localhost-1081-in8) P4|()| P29(Null) P8|()| P30(Null) P9|()|
P31(Null) P14(vw-CJ) TL7(green) P13|(NULL)| OP7(localhost-1081-in7) P0|(NULL)| P16(Null) P17|()| TL4(red) P18(Null) OP4(localhost-1081-in4)
P19(Null) P20|()| TL5(red) P21(Null) OP5(localhost-1081-in5) P23(Null) P24|()| TL6(red) P25(Null) OP6(localhost-1081-in6) P22|()| P33(Null) P26|()|
P33(Null) P15|()|]
ExecutionList [T14 Temp Marking [TL7(green)]]
[T1 conditions are false][T2 conditions are false][T3 conditions are false][T4 conditions are false][T30 conditions are false][T5 conditions are
```



Lanes Intersection [Network Port:1080]

Follow The Transition

P1

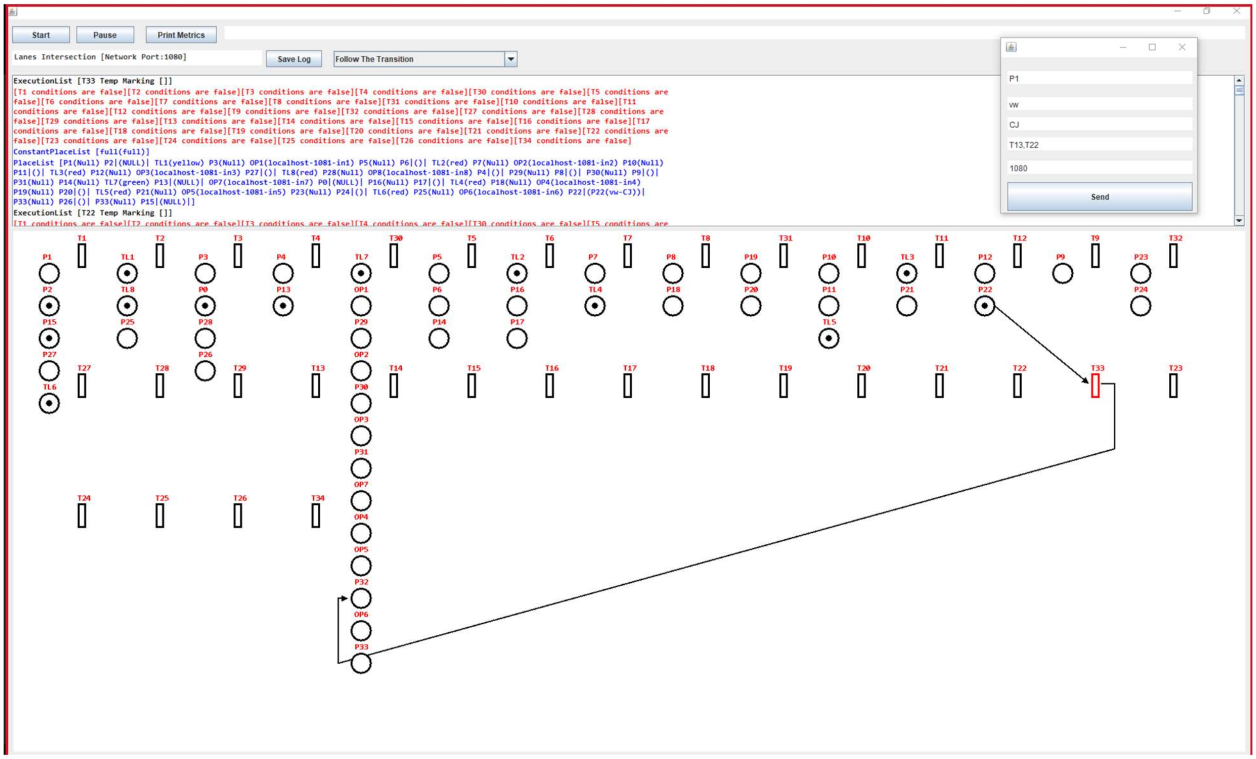
vw

CJ

T13,T22

1080

```
ExecutionList [T22 Temp Marking []]
[T1 conditions are false][T2 conditions are false][T3 conditions are false][T4 conditions are false][T30 conditions are false][T5 conditions are
false][T6 conditions are false][T7 conditions are false][T8 conditions are false][T31 conditions are false][T10 conditions are false][T11
conditions are false][T12 conditions are false][T9 conditions are false][T32 conditions are false][T27 conditions are false][T28 conditions are
false][T29 conditions are false][T13 conditions are false][T14 conditions are false][T15 conditions are false][T16 conditions are false][T17
conditions are false][T18 conditions are false][T19 conditions are false][T20 conditions are false][T21 conditions are false][T33 conditions are
false][T23 conditions are false][T24 conditions are false][T25 conditions are false][T26 conditions are false][T34 conditions are false]
ConstantPlaceList [full(full)]
PlaceList [P1(Null) P2|(NULL)| TL1(yellow) P3(Null) OP1(localhost-1081-in1) P5(Null) P6|()| TL2(red) P7(Null) OP2(localhost-1081-in2) P10(Null)
P11|()| TL3(red) P12(Null) OP3(localhost-1081-in3) P27|()| TL8(red) P28(Null) OP8(localhost-1081-in8) P4|()| P29(Null) P8|()| P30(Null) P9|()|
P31(Null) P14(Null) TL7(green) P13|(NULL)| OP7(localhost-1081-in7) P0|(NULL)| P16(Null) P17|()| TL4(red) P18(Null) OP4(localhost-1081-in4)
P19(Null) P20|()| TL5(red) P21(Null) OP5(localhost-1081-in5) P23(Null) P24|()| TL6(red) P25(Null) OP6(localhost-1081-in6) P22|()| P33(Null) P26|()|
P33(Null) P15|(P15(vw-CJ))|]
ExecutionList [T15 Temp Marking [P14(vw-CJ)]]
[T1 conditions are false][T2 conditions are false][T3 conditions are false][T4 conditions are false][T30 conditions are false][T5 conditions are
```



```
Lanes Intersection [Network Port:1080]
```

Follow The Transition

```
ExecutionList [T33 Temp Marking []]
[T1 conditions are false][T2 conditions are false][T3 conditions are false][T4 conditions are false][T30 conditions are false][T5 conditions are
false][T6 conditions are false][T7 conditions are false][T8 conditions are false][T31 conditions are false][T10 conditions are false][T11
conditions are false][T12 conditions are false][T9 conditions are false][T32 conditions are false][T27 conditions are false][T28 conditions are
false][T29 conditions are false][T13 conditions are false][T14 conditions are false][T15 conditions are false][T16 conditions are false][T17
conditions are false][T18 conditions are false][T19 conditions are false][T20 conditions are false][T21 conditions are false][T22 conditions are
false][T23 conditions are false][T24 conditions are false][T25 conditions are false][T26 conditions are false][T34 conditions are false]
ConstantPlaceList [full(full)]
PlaceList [P1(Null) P2|(NULL)| TL1(yellow) P3(Null) OP1(localhost-1081-in1) P5(Null) P6|()| TL2(red) P7(Null) OP2(localhost-1081-in2) P10(Null)
P11|()| TL3(red) P12(Null) OP3(localhost-1081-in3) P27|()| TL8(red) P28(Null) OP8(localhost-1081-in8) P4|()| P29(Null) P8|()| P30(Null) P9|()|
P31(Null) P14(Null) TL7(green) P13|(NULL)| OP7(localhost-1081-in7) P0|(NULL)| P16(Null) P17|()| TL4(red) P18(Null) OP4(localhost-1081-in4)
P19(Null) P20|()| TL5(red) P21(Null) OP5(localhost-1081-in5) P23(Null) P24|()| TL6(red) P25(Null) OP6(localhost-1081-in6) P22|(P22(vw-CJ))|
P33(Null) P26|()| P33(Null) P15|(NULL)|]
ExecutionList [T22 Temp Marking []]
[T1 conditions are false][T2 conditions are false][T3 conditions are false][T4 conditions are false][T30 conditions are false][T5 conditions are
```

P1

vw

CJ

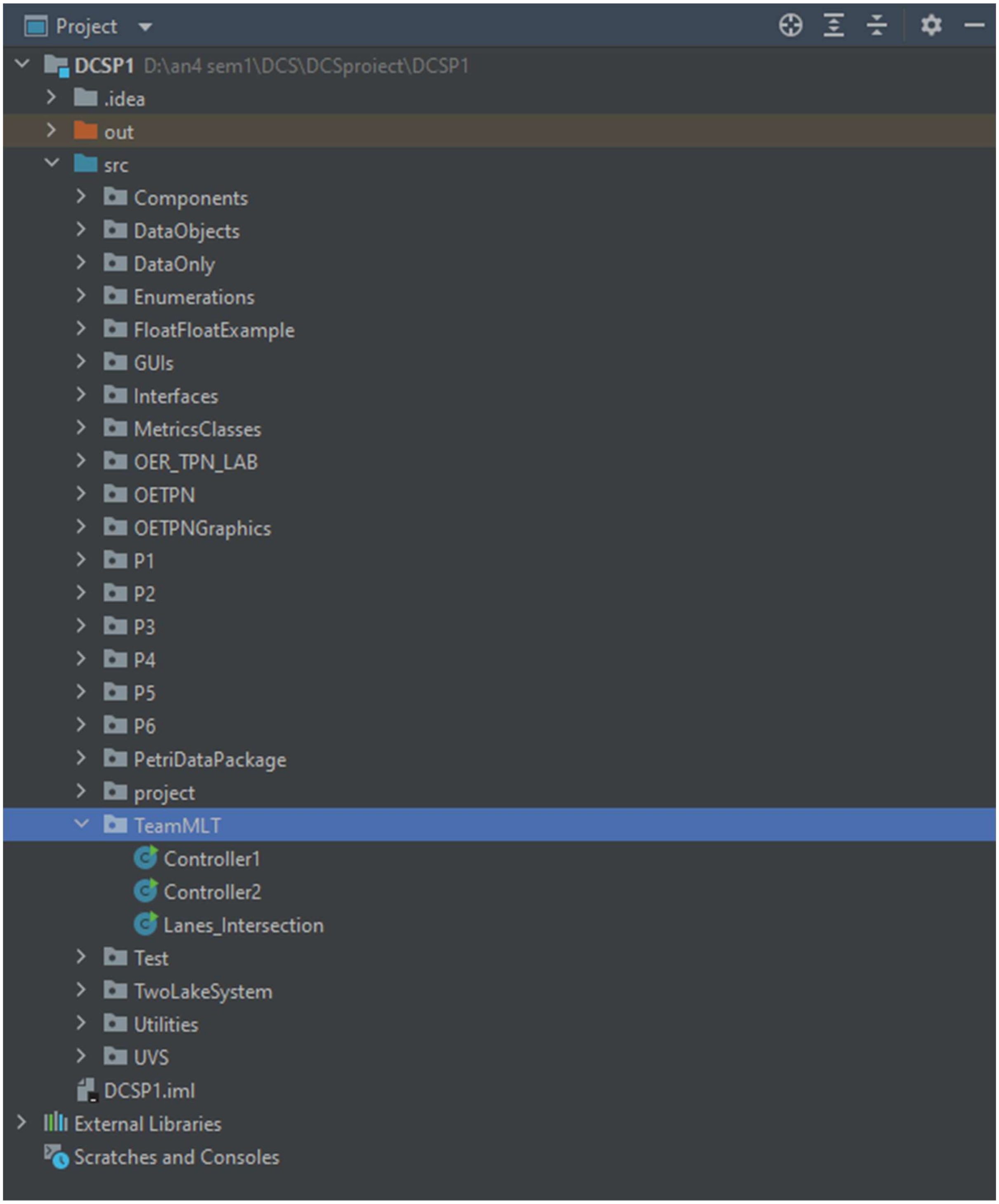
T13,T22

1080

List the source code

The entire source code and package are attached to the project report

Attached workspace



```
Project
DCSP1 D:\an4 sem1\DCS\DCSproiect\DCSP1
  .idea
  out
  src
    Components
    DataObjects
    DataOnly
    Enumerations
    FloatFloatExample
    GUIs
    Interfaces
    MetricsClasses
    OER_TPN_LAB
    OETPN
    OETPNGraphics
    P1
    P2
    P3
    P4
    P5
    P6
    PetriDataPackage
    project
    TeamMLT
      Controller1
      Controller2
      Lanes_Intersection
    Test
    TwoLakeSystem
    Utilities
    UVS
  DCSP1.iml
External Libraries
Scratches and Consoles
```