AutoCar case study - Definitions Sanitization

Hello everyone, the purpose of this form is to capture the semantic relationship between event and measures of the AutoCar case-study, these relationships are application specific or common-knowledge.

* Indicates required question

1. Could you please give your current time

   _____

   Example: 8:30 AM

2. Given this justification: "*When the vehicle is parked, it is not driving*". *
   Is **ParkVehicle** mutual exclusive with **CarDriving**?
   If you have a justification, provided it in others.

   Check all that apply.

   ☐ Yes
   ☐ No
   ☐ Other: _____

3. Given this justification: "*When the car is temporarily stopped, it is not driving at* *
   the same time*".
   Is **TemporarilyStopCar** mutual exclusive with **CarDriving**?
   If you have a justification, provided it in others.

   Check all that apply.

   ☐ Yes
   ☐ No
   ☐ Other: _____

4. Given this justification: "*When the user turns off the system, the car is not driving* *
   at that moment".
   Is **UserTurnOffSystem** mutual exclusive with **CarDriving**?
   If you have a justification, provided it in others.

   Check all that apply.

   ☐ Yes
   ☐ No

   ☐ Other: _____

5. Given this justification: "*When the user turns off the system, the car is not driving* *
   at that moment".
   Is **UserTurnOffSystem** mutual exclusive with **CarDriving**?
   If you have a justification, provided it in others.

   Check all that apply.

   ☐ Yes
   ☐ No

   ☐ Other: _____

6. Given this justification: "*If an external alert is displayed, it implies the*   *
   environment is not clear".
   Is **DisplayAlert** mutual exclusive with **EnvironmentClear**?
   If you have a justification, provided it in others.

   Check all that apply.

   ☐ Yes
   ☐ No

   ☐ Other: _____

7. Given this justification: "*If user turned off system they won't be able to give*   *
   input".
   Is **UserTurnedOffSystem** mutual exclusive with **TakeUserInput**?
   If you have a justification, provided it in others.

   Check all that apply.

   ☐ Yes
   ☐ No

   ☐ Other: _____

8. Given this justification: "*If user cancels the path, the car might have to stop*   *
   driving".
   Is **UserCancelPath** mutual exclusive with **CarDriving**?
   If you have a justification, provided it in others.

   Check all that apply.

   ☐ Yes
   ☐ No

   ☐ Other: _____

9. Given this justification: "*If sensors are off, they won't record people nearby*". *
   Is **TurnOffSensors** mutual exclusive with **RecordPeople**?
   If you have a justification, provided it in others.

   Check all that apply.

   ☐ Yes
   ☐ No

   ☐ Other: _____

10. Given this justification: "*When the user turns off the system, the system is not*   *
ready to function".
Is **UserTurnOffSystem** mutual exclusive with **SystemReady**?
If you have a justification, provided it in others.

Check all that apply.

☐ Yes

☐ No

☐ Other: _____

11. Given this justification: "*Turning off sensors might stop displaying information*   *
about the car".
Is **TurnOffSensors** mutual exclusive with **DisplayCarInformation**?
If you have a justification, provided it in others.

Check all that apply.

☐ Yes

☐ No

☐ Other: _____

12. Given this justification: "*The display of an error implies that the system is not*   *
ready or fully functioning".
Is **DisplayError** mutual exclusive with **SystemReady**?
If you have a justification, provided it in others.

Check all that apply.

☐ Yes

☐ No

☐ Other: _____

13. Given this justification: *"If there is an ambulance behind the car, it implies that*   *
    there is a priority vehicle nearby".
    Is **ambulanceBehindCar** implying **priorityVehicleNearby**?
    If you have a justification, a note to add if something is unclear, provide it in
    others.

    Check all that apply.

    ☐ Yes
    ☐ No

    ☐ Other: _____

14. Given this justification: *"If there is an ambulance next to the car, it implies that*   *
    there is a priority vehicle nearby".
    Is **ambulanceNextToCar** implying **priorityVehicleNearby**?
    If you have a justification, a note to add if something is unclear, provide it in
    others.

    Check all that apply.

    ☐ Yes
    ☐ No

    ☐ Other: _____

15. Given this justification: *"If there is an ambulance on the opposite side, it implies* *
    that there is a priority vehicle nearby".
    Is **ambulanceOnOppositeSide** implying **priorityVehicleNearby**?
    If you have a justification, a note to add if something is unclear, provide it in
    others.

    Check all that apply.

    ☐ Yes
    ☐ No

    ☐ Other: _____

16.   Given this justification: "*In the context of traffic lights, the lights are mutually*   *
exclusive. A red light being on implies that a green light is not on"
Is **redLight** mutual exclusive with **greenLight**?
If you have a justification, a note to add if something is unclear, provide it in
others.

Check all that apply.

☐ Yes
☐ No

☐ Other: _____

17.   Given this justification: "*The user can't turn on and off the system at exactly the* *
same time."
Is **userTurnedOffSystem** mutual exclusive with **userTurnedOnSystem**?
If you have a justification, a note to add if something is unclear, provide it in
others.

Check all that apply.

☐ Yes
☐ No

☐ Other: _____

18.   Given this justification: "*The door being closed doesn't necessarily mean the*   *
user turned off the system."
Is **doorClosed** mutual exclusive with **userTurnedOffSystem**?
If you have a justification, a note to add if something is unclear, provide it in
others.

Check all that apply.

☐ Yes
☐ No

☐ Other: _____

19. Given this justification: "*In the context of traffic lights, the lights are mutually exclusive. A green light being on implies that a yellow light is not on.*"   *
Is **greenLight** mutual exclusive with **yellowLight**?
If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

  ☐ Yes
  ☐ No
  ☐ Other: _____

20. Given this justification: "*The ambulance can't be both behind and next to the car at exactly the same time.*"   *
Is **ambulanceBehindCar** mutual exclusive with **ambulanceNextToCar**?
If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

  ☐ Yes
  ☐ No
  ☐ Other: _____

21. Given this justification: "*In the context of traffic lights, the lights are mutually exclusive. A red light being on implies that a yellow light is not on.*"   *
Is **redLight** mutual exclusive with **yellowLight**?
If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

  ☐ Yes
  ☐ No
  ☐ Other: _____

22.　Given this justification: "*If the user turned off the system, it cannot be ready for*　*
operation"
Is **userTurnedOffSystem** mutual exclusive with **systemReady**?
If you have a justification, a note to add if something is unclear, provide it in
others.

Check all that apply.

◻ Yes
◻ No

◻ Other: _____

23.　Given this justification: "*If there is an object in the path, the path is not currently*　*
clear or passable"
Is **objectInPath** mutual exclusive with **pathExists**?
If you have a justification, a note to add if something is unclear, provide it in
others.

Check all that apply.

◻ Yes
◻ No

◻ Other: _____

24.　Given this justification: "*The seat belt being on doesn't necessarily mean the*　*
door is closed"
Is **seatBeltOn** mutual exclusive with **doorClosed**?
If you have a justification, a note to add if something is unclear, provide it in
others.

Check all that apply.

◻ Yes
◻ No

◻ Other: _____

25. Given this justification: "*If there is a car behind, the path in front doesn't*   *
necessarily exist."
Is **carBehind** mutual exclusive with **pathExists**?
If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

☐ Yes
☐ No
☐ Other: _____

26. Given this justification: "Both measures indicate the closeness of a priority   *
vehicle, like an ambulance, to the car. Thus, they represent the same condition
with different names*".
Is **ambulanceBehindCar** equivalent to **priorityVehicleNearby**?
If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

☐ Yes
☐ No
☐ Other: _____

27. Given this justification: "*Both measures indicate the closeness of a priority*   *
*vehicle, like an ambulance, to the car. Thus, they represent the same condition
with different names*".
Is **ambulanceNextToCar** equivalent to **priorityVehicleNearby**?
If you have a justification, a note to add if something is unclear, provide it in others.

Check all that apply.

☐ Yes
☐ No
☐ Other: _____

28. Given this justification: "*Both measures indicate the closeness of a priority*   *
    vehicle, like an ambulance, to the car. Thus, they represent the same condition
    with different names".
    Is **ambulanceOnOppositeSide** equivalent to **priorityVehicleNearby**?
    If you have a justification, a note to add if something is unclear, provide it in
    others.

    Check all that apply.

    ☐ Yes
    ☐ No

    ☐ Other: _____

29. Could you please fill the current time after filling this form?

    _____

    Example: 8:30 AM

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