req [package] Two Level Requirement Hierarchy [Requirement Diagram]

«requirement»
Intersection Traffic System Behaivor

id = "identifierOne"
text = """System needs to make sure every vehicle and pedestrian passes safety."""

«requirement»
Collision Avoidance

id = "identifierTwo"
text = """Each vehicle should be utilize algorithms to predict potential collisions."""

«requirement»
Traffic Management

id = "identifierThree"
text = """The system should be able to monitoring and managing traffic flow."""

«requirement»
Optomize Waiting Time

id = "identifierFour"
text = """enhance traffic flow and reduce delays"""

«refine»

«requirement»
Warning Signal

id = "identifierFIve"
text = """It should be able to notify."""

«refine»

«refine»

«refine».

«refine»

«refine»

«requirement»
Communication with Autonomous Vehicles

id = "identifierSeven"
text = """It should be able to communicate with autonomous vehicles, exchanging information."""

«requirement»
Emergency Vehicle Priority

id = "identifierEight"
text = """It should be able to navigate through traffic with minimal disruption and ensuring rapid response times."""

«requirement»
Calculating Traffic Flow

id = "identifierNine"
text = "It should be to calculate traffic congestion to reduce travel time and enhance overall traffic efficiency"

«requirement»
Communication Behaivor

id = "identifierTen"
text = """It should be able to exchange of information and signals among various components"""

«requirement»
Failure and Hazard strategies

id = "identifierThirteen"
text = """It should be able to robust and reliable to potential failure."""

«refine»

«refine»

«refine»

«refine»

«refine».

«requirement»
Sensor Integration

id = "identifierEleven"
text = """The system should be able to integrate of various sensors."""

«requirement»
V2X Data

id = "identifierTwelve"
text = """It should be able to facilitate real-time communication."""

«requirement»
Communication failure

id = "identifierFourteen"
text = """The system should be able to implement robust backup mechanisms."""

«requirement»
Accidents signals

id = "identifierFifteen"
text = """It should be able to identify the occurrence of an accident and initiate a coordinated response."""

«requirement»
Calculating Traffic Flow

ifierNine"
hould be to calculate traffic
n to reduce travel time and
overall traffic efficiency"

«requirement»
Extreme weather

id = "identifierFifteen"
text = ""It should be able to
adjust extreme weather
conditions.""