Please submit only handwritten diagrams!

Aufgabe 11: UML Class Diagrams

A local public transport system consists of a number of lines, within which various stops are served. A line begins at a first stop and ends at a last stop. Every line is served by exactly one means of transport (bus, tram, suburban railway). Different transport companies therefore run a number of lines. The transport companies in turn have been brought together into an integrated public transport association, which among other things has introduced uniform names for the lines and unique names for stops.

Draw up from the description above an UML class diagram for local public transport. Mind especially the possible classes, attributes, inheritances, aggregations and associations, which are to be inferred/taken out from the description above.

12 Punkte

Aufgabe 12: UML Use Case Diagrams

A public transport association gave you the task to implement a traffic news system. An online editor has to gather up the news about traffic disruptions/tie-ups/jams reported by a transport company. The online editor publishes the news on the association’s web site. Via this site users are able to call the current traffic-obstructions at any time. Furthermore, the online editor should have the possibility to request further information about the traffic obstructions from the reporting transport company.

Draw a UML use case diagram from this scenario by identifying use cases, actors and associations.

8 Punkte

For your thought (do not submit, will not be corrected)

Think about examples where multiple inheritance makes sense.