Aufgabe 13: UML Sequenz- und Kollaborationstagramme

We take up our scenario of the local public transport from the previous exercise. Your client has described the process of announcements, acquisitions/conceptions and publication of malfunctions/traffic disruptions as following:

*The transport company reports the online-editor about the disruptions. He checks whether the given data are complete or not. If they are not complete, he asks the transport company to give him the missing data and they will deliver these to him in addition. If the data are complete, then he will enter these data into the logging system. After that the logging system will check the consistence of the data. If they are not consistent, the logging system will inform the error to the online-editor and he will inform the transport company, that the acquisition of the disruption could not be logged. So the process thereupon aborts. Are the data consistent on the contrary, a new disruption instance will be created. An "OK" will be sent to the online-editor, who will publish this disruption instance on the webserver thereafter. At last, the online-editor will inform the transport company that the disruption/malfunction has been published.*

a) Provide a sequence diagram for case of success (data consistent) and case of an error (data not consistent) from the description above.

b) Provide from the description above a collaboration diagram for the case of success.

10 Punkte

Aufgabe 14: UML Aktivitätsdiagramme

Take the description from exercise 13.

a) Provide from the description a UML activity diagram.

b) The process *check-consistency* is described as follows:

*In order to check the consistence, the process must receive the stop/hold and line. Afterwards it is checked parallel, whether the line and the stop exist at all in the system. If this is not the case, "not consistent" will be sent back. If both are existent, it will check then if the stop belongs to the...*
line. If this is not the case, there is no consistency, otherwise the data are consistent.

Provide an activity diagram for check consistency.

10 Punkte