

Assignment 2

LAN SIMULATION

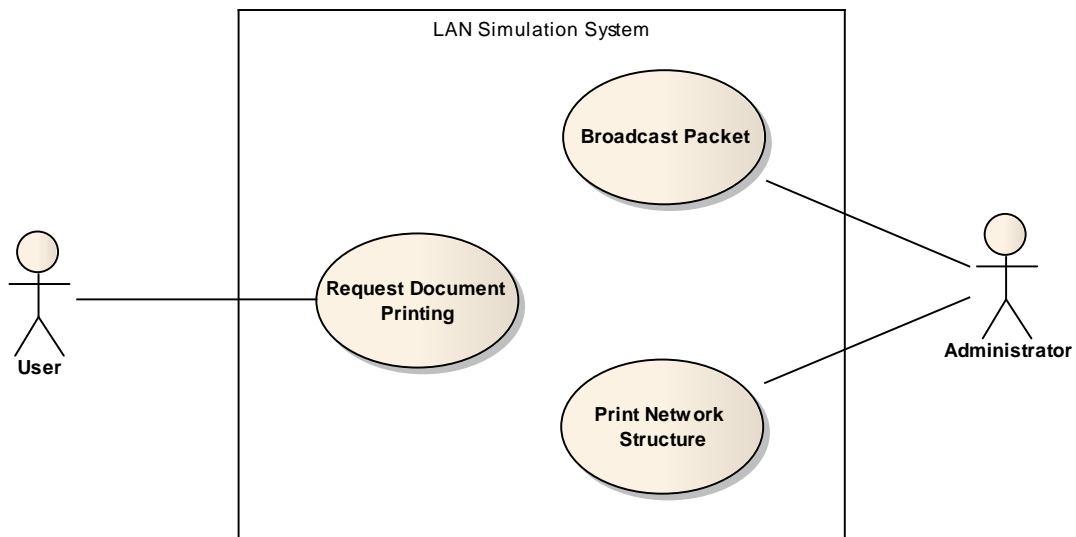
You are facing a software system which represents a simulation of a local area network.

The development team has been very fast in accommodating the initial requirements for the system and has been able to release version 1.0 of the system. However, the customer now requests the extra functionality and the development team fears that the current design is not up to the task.

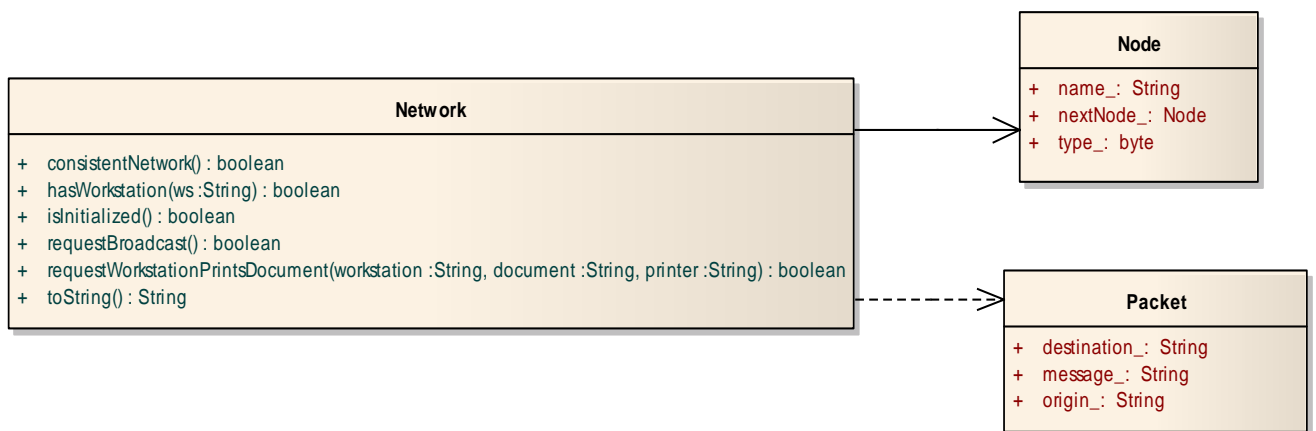
Having heard of your expertise, they hired you to have a look at their code and improve its design appropriately. They do not expect a "perfect" design, yet it should enable you to add the new functionality easily.

LAN Simulation - current documentation:

- Use cases



- Class Diagram



New Feature for next version:

GATEWAY NODE

Introduce a new "gateway" node, which can recognize all addresses in its current subnetwork by looking at the first 3 characters of the addressee. If a packet passes through the gateway and the addressee is not on the current subnetwork, the message is deferred through the gateway.