System Y: portfolio

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# Introduction

System Y is a distributed filesystem: it’s task is to store files in a network. It’s important that the system is robust and fail-safe, otherwise important files could be lost.

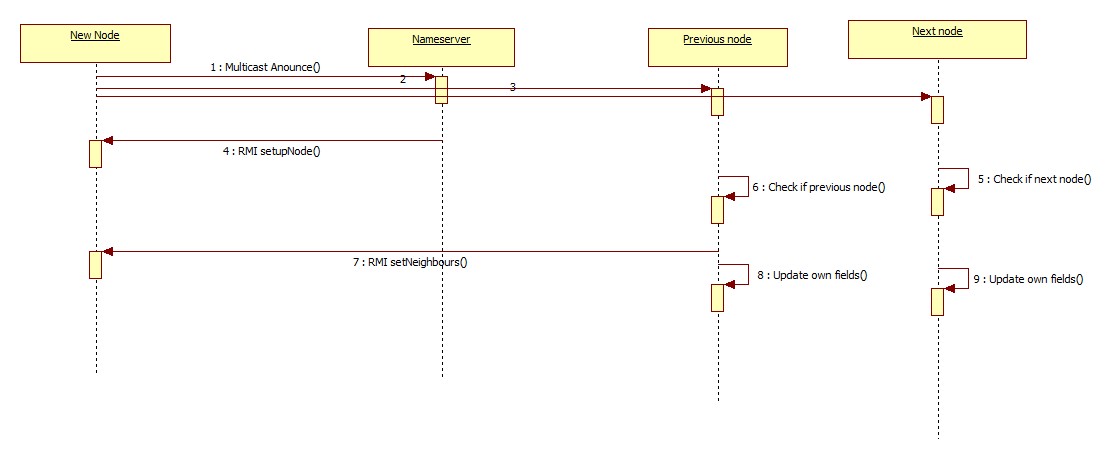
# Assignment 1: Naming Server

The naming server’s task is to keep an overview of all the nodes in the network. It has a supporting role to the nodes and doesn’t store any files. In our design of the system we assume the nameserver is always on and reachable.



# Assignment 2: Discovery & Bootstrap

The discovery and bootstrap process is executed when a new node is started. Its tasks are manifold, lots of things need to be set up. To accomplish this many classes need to work together, even between different hosts.



The first announcement is sent via multicast. As internet routers do not forward this type of packet, the discovery process will only work in a LAN.