Erasmus Line Deployment suggestion overview

Decentralized Idea:

-The application is self autonomous and each institution is responsible to install and host it.

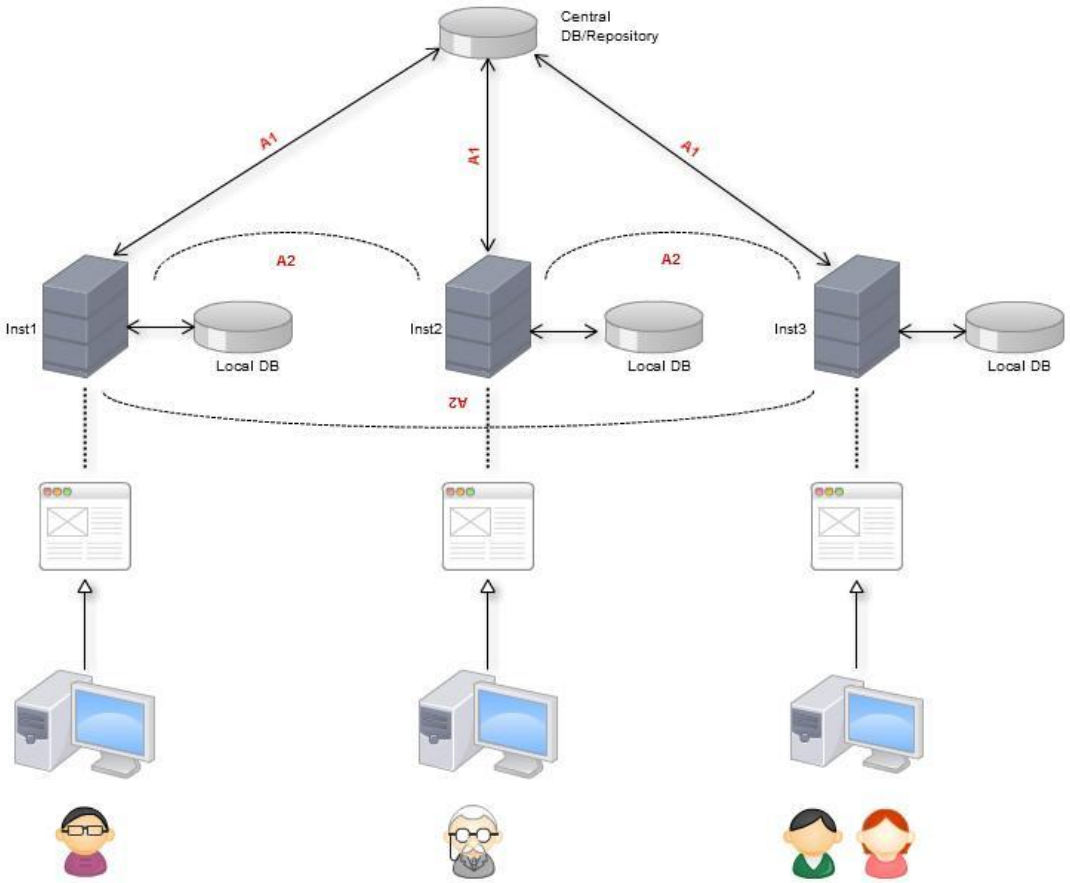
(Example: brain cells implementation?)

What this implies?

-Every Institution will have their own webpage (that at the beginning it's the one designed by us but we could give the incentive to each one make their own interface) and Database.

This way the login problems of the accounts not being centralized are nullified.

How it will work:



A - Given this implementation, information between Institutions has to be shared and we have to decide how we will accomplish this.

A1 -

a) We can use a repository that controls and keeps track of all Institutions and the new ones, therefore the application when installed accesses this repository to 'register itself' and get the list of all the running ones, after that, an alert is generated to all the actives ones so they can update themselves with the "new born".

b) Taking into consideration that Institution will need to become partners first before exchanging students, if there's no other reason for a central repository we can avoid it and say that they have to agree on partnership first by their own communications and if accepted they add each other on the application.

A2 - Database mirroring is completely out of question given the huge amount of Databases that can exist so the information will be separated, therefore we will have o create some kind of communication protocol between Institutions for when they need to get info that's stored on the other side and so on.

Pros:

-Account management and 'power attribution' simplified since every Institution is responsible for them self

-Law problems with info also probably solved

-Pre candidate forms being different can also be solved by this (everyone is responsible for their own)

Cons:

-Information about the host coordinator, the student that comes from far away, stuff like that, needs to be accessed

-Database design might be altered because some extra info from receiving students might be stored and stuff like that depending on the implementation, infox will have to support all the communications about this info

-Harder to update/patch

Problems:

-The info that isn't stored and needs to be exchanged, how to work around that? Are there any law implications on how they are shared? Can they be temporarily stored or they can just be accessed to 'read only'?

-Some kind of central control will be required if the central repository is to be implemented (extra staff/administrators needed).

Possible Solutions:

-After a process is accepted, a ticket is created between the receiving and giving Institution, so when they need info about each other they can use that ticket that will block their view only to what's allowed and as soon the out process passes, the ticket expires.

-Going with **A1 b** avoids that, probably the best way to go but still with some implications.