

Problem Statement:

In a company X, on any given floor Y, employees as well as management find it difficult to keep track of changing assets of an employee on the floor. For instance, there is no easy way for an employee to inform management that he has moved to a new seat location or for the management to inform the employee that his seat location has changed. We are now looking at a simple user friendly system to achieve the same. The system

1. Must allow a user to claim a seat from the list of available seats on the floor
2. Once a user desires to move to a seat, the user must be able to raise a request to move to new seat
3. An admin/manager must be able to approve or reject the request
4. An admin/manager must be able to change the seat location of any user
5. On all such events, notification must be sent to all involved stakeholders

What do we want to see?

1. An overall design to put such a system together – Architecture/Component/class/uml or whatever to have such a system in place
2. DB Schema Design
3. User stories split up
4. Extensibility of Design
5. Are all the use cases above are fairly covered?
6. Are there any use cases that the system will handle effectively that are not in the above listed use-cases
7. A prototype of any two use-cases with a complete testability.
8. How easy it is to debug the system and also to plugin other new components

Hints:

1. Don't try to use fancy stuffs for prototype
2. Design must be elegant and full-fledged with all possible events/notification involved