Please solve the following assignment within **three to four hours** and note that there are really no other constraints. It is simply a discussion starter. You can choose any platform/framework/whatever you like and there is no need for the solution to be complete.

Epic: User management system

Stories:

- As an admin I can add users. A user has a name

- As an admin I can delete users

- As an admin I can assign users to a group they aren't already part of

- As an admin I can remove users from a group

- As an admin I can create groups

- As an admin I can delete groups when they no longer have members

This is the kind of artifact we would like to see:

a) Show me a small domain model for the processes above (in UML or anything else). For frontend positions this domain model can be a frontend domain model as well

b) Show me a database model (for frontend positions this might be even client side)

c) Design a convenient API other developers would love to use for the tasks above. For frontend positions this should be an remote interface.

d) For frontend positions only: describe in detail how your frontend would look like and how you would implement it and show me some code