1. Users Roles:
   1. Technicians
   2. Managers.
   3. Supervisors
   4. Admin
2. Admin:
   1. Manage Every Thing.
3. Supervisor:
   1. Same as manager but only view.
4. Managers:
   1. Same as Admin but can’t manage Roles and Users only view.
5. Technicians:
   1. Can see all projects assigned a task in.
   2. Can’t access any file.
   3. Can add task.
   4. Can assign task to another user.
   5. Three types of Technicians:
      1. Network users.
      2. System.
      3. Datacenter.

Imp. Note: To demonstrate Technicians hierarchy we will create separate role for each of sub roles then we can group them in the code using mapping (i.e. Roles.Technicians which is a string of three roles combined).

We also should create extensions in Identity for each separate role (isNetwork, .. ) and an extension for the base role (IsTechnician).

**Tasks:**

The task has title, description, due date, the user created the task (Owner),

Assignee (one user assigned to this task), State, creation date,

Priority, Comments.

* Each activity on the task should be logged (fine grained log is not necessary).
* Tasks can be arranged in two levels, (i.e. each task can have sub tasks but sub tasks can’t be divided further).
* Once task is created it’s state is inprogress,
* A manager can manually mark the task as complete (task is done) and all sub tasks then marked as completed automatically.
* once the task exceeds the due date its state automatically moved to delayed.
* A user can view a list of all tasks (and sub-tasks) assigned to.

Note: if user assigned to task, he can see all tasks in the project...

**Projects:**

Each project has title, Description, Create Date, Manager Created the project (User), IsArchived, Archiving Date, Attachments,

* Archived project converted to view mode (can’t be edited any more).
* The attachments Is collection of files kept for reference for this project and can be uploaded by manager and seen by managers and supervisors.

Enquiries:

1. How much assignee for each task.
2. Tasks hierarchy depth.