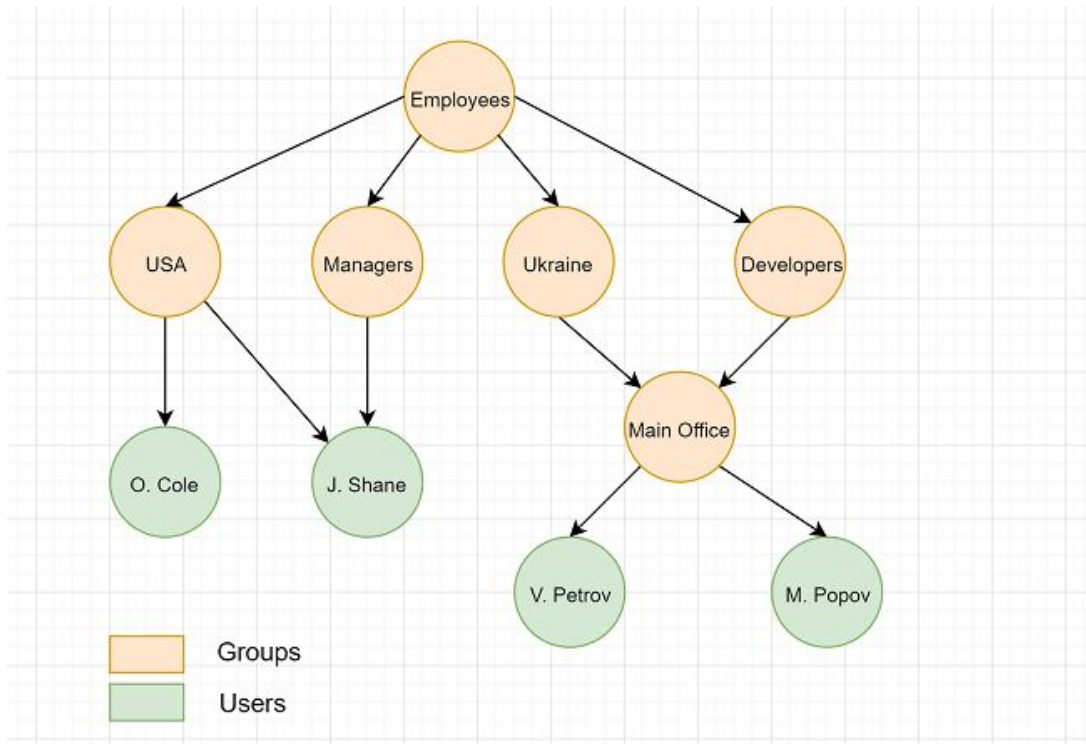


User/Group Management

Need to implement system for management users and groups.

Example of structure which our system can build:



The following functionality must be supported by our system:

- Add/Delete user.
- Add/Delete group.
- Add user to group. Remove user from group.
- Add group to group. Remove group from group.
- Get List of all groups (flat list)
- Get List of all users
- Get List of groups which the user/group belongs to. Examples:
 - For User "V. Petrov" result must be "Main Office"
 - For User "J. Shane" result must be "USA" and "Managers"
 - For Group "Main Office" result must be "Ukraine" and "Developers"

Some notes:

- User can be added to multiple groups
- Group can be added to multiple groups

System contains of 3 parts:

1. **Database.**

- a. Use SQL Server to store all data.
- b. User fields (Id, Name)
- c. Group fields (Id, Name)

2. **Web Server.**

- a. Use Web API to manage data.
- b. Use Entity Framework Code First
- c. Implement API to support required functionality

3. **User Interface**

- a. Use HTML/CSS to create 4 **simple** pages. *Don't spend a lot of time of designing pages.*
 - i. **Page 1.** List of all users
 - ii. **Page 2.** List of all groups
 - iii. **Page 3.** User Details. Show list of groups which user belongs to. Ability to remove from group or add to another group.
 - iv. **Page 4.** Group Details. Show list of groups which group belongs to. Ability to remove from group or add to another group.
- b. Use pure javascript or other framework(good to use angular2) to implement working with api.