Assignment for Candidates

We are going to create a user management system. The system has to be available through the browser (they use Internet Explorer 11 as a standard, but does not exclude that some employees will use Chrome or Firefox). The system is supposed to store data in an SQL or NoSQL database. The customer prefers an architecture where a browser runs a client in javascript communicating through REST with a server which implements business logic and manages the connection to the database but other solutions are acceptable. As part of the provided service, the client will receive the source codes, so all names and comments should be in English. The client does not impose any restrictions on the use of particular frameworks, libraries or databases, so please choose your favorite tools.

Functionalities

1. Managing users
   a. List of users
   b. Adding a user
   c. Deleting a user
   d. Editing a user
2. Managing user groups
   a. List of user groups
   b. Adding a user group
   c. Deleting a user group
   d. Editing user group

Data structure

1. User:
   a. User Name
   b. Password
   c. First Name
   d. Last Name
   e. Date of birth
   f. List of User Groups to which the User belongs
2. User Group
   a. Group Name
   b. List of Users who belong to the Group

All properties, including the lists, should be editable in the application.

Assignment

Please prepare a simple application that complies with the above specifications. The most crucial is the design and code quality, the appearance is secondary but not unimportant.