**Library Management System**

Jack, a businessperson by profession wants to open up a chain of Libraries. He wants to keep track of all the registration and user-base for his libraries.

Jack’s Feature requirement:

One user can be registered under multiple libraries for free and easy access, at the same time one library can have multiple users.

Identification of entities:

A unique Library ID, Library name and Library Address will identify library.

A unique User ID, Name and Address will identify user.

Jack’s business Requirement:

1. Application should be able to register a library with user/ without user.
2. Application should be able to register user with libraries.
3. Application should be able to get all the libraries and all the associated users.
4. Application should be able to get all the libraries whose user count is greater than 50.
5. Application should be able to get a particular user and libraries under which he is registered, based on the ID.