# Database Initial Study

Enterprise level database (MS SQL Server)

Interaction with internal application and possibly web services

### Roles

DBA: access to maintain/optimize

Front-end dev: application-tier accesses DB securely (password hashing)

End-users: 2 types (consultants/account executives) with no access to DB

### Compliance

Important to achieve data security/ database compliance this will include:

* appropriate governance
* secure platform
* strict identity/access control
* DB encryption
* Auditing

### Functions *create, read, update and delete*

|  |  |
| --- | --- |
| 1. user registry/ create login-id (unique) | 1. user login |
| 1. user authentication (\*levels) | 1. user logout |
| 1. read login-id | 1. CRU password |
| 1. CRU first name | 1. CRU last name |
| 1. CRU email | 1. CRU user-type |
| 1. CRUD keyword | 1. CRUD keyword associations |
| 1. CRUD phone number | 1. CRUD résumé |
| 1. CRU beach status | 1. list all active consultants on beach (view) |
| 1. list all available metadata tags (view) | 1. filter by tags (select query) |
| 1. filter by search (select query) | 1. acct execs can R consultant data (select query) |
| 1. access rights |  |

### Assumptions/Rules/Limitations

* all end-users can only create/modify their own information
* all users can read their own info
* all account execs can read all pertinent consultant data
* DB is encrypted
* DB has back-ups and transaction logs (stored procedures/triggers)