**Book It Database Design**

**Six Tables** -> Users, Businesses, Employees, Bookings, MailBox, Invites

**Users**

|  |  |  |
| --- | --- | --- |
| **COLUMN NAME** | **DESCRIPTION** | **OTHER INFORMATION** |
| Name |  |  |
| Address |  |  |
| Postcode |  |  |
| Email |  |  |
| Phone |  |  |
| Username |  |  |
| Password |  |  |
| LastLogin | DateTime of last log in |  |
| Salt | Encryption SALT |  |
| Permission | Permission level | Permission levels  1 – General User  2 – Moderator  3 – System Admin |

General User – View and edit own data

Moderator – View and edit most data

System admin – Access to all commands

**Businesses**

|  |  |  |
| --- | --- | --- |
| **COLUMN NAME** | **DESCRIPTION** | **OTHER INFORMATION** |
| Name |  |  |
| Address |  |  |
| Postcode |  |  |
| Email |  |  |
| Description | Services offered etc. | Small description visible to clients |
| Active | Shows whether the business is active | (i.e. has paid) |
| SharedBookings | Are bookings shared between all employees (i.e. hair salon) |  |

**Employees**

|  |  |  |
| --- | --- | --- |
| **COLUMN NAME** | **DESCRIPTION** | **OTHER INFORMATION** |
| BusinessID | ID of associated business |  |
| UserID | ID of associated user |  |
| PermissionLevel | Permission level within business | 1 – General, 2 – Advanced, 3- admin, 4 - Owner |
| Availability | Shows available times |  |
| Ammendments | Changes in standard availability |  |

Availability and Ammendments

Availability shows when the employee is available for booking, if the business offers shared bookings then a client can book a time slot if any of the employees are available at that time.

// -------------------- ^ Need to plan this out

**Bookings**

|  |  |  |
| --- | --- | --- |
| **COLUMN NAME** | **DESCRIPTION** | **OTHER INFORMATION** |
| EmployeeID |  |  |
| UserID |  |  |
| DateTime |  |  |
| Duration |  |  |
| Description |  |  |
| Cancellation |  |  |

**MailBox**

|  |  |  |
| --- | --- | --- |
| **COLUMN NAME** | **DESCRIPTION** | **OTHER INFORMATION** |
| UserID |  |  |
| EmployeeID |  |  |
| Message |  |  |
| DateTime |  |  |

**Invites**

|  |  |  |
| --- | --- | --- |
| **COLUMN NAME** | **DESCRIPTION** | **OTHER INFORMATION** |
| BusinessID | ID of associated business |  |
| UserID | ID of recipient user (blank for any) | NULL if code can be redeemed by any user |
| InviteCode | Code to be redeemed |  |
| DateTime | DateTime of creation |  |
| Expires | DateTime of expiray |  |
| Uses | Number of allowed uses | Must be 1 if ID is specified,  -1 for unlimited uses |