Database Objects

JK Moving Mobile App

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## Guidelines:

Check the application guidelines document.

## Common Fields:

These fields are used in all the tables irrespective of what they are used for. “<tablename>” is replaced by the specific table name for each table. E.g. table named “users” will have the field as “users\_FIB”.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Allow Null** | **Used For** | **Constraints** |
| <tablename>\_FIB | nvarchar(20) | No | Id of the user who created the record for the first time. | Is a foreign key of ID in users table |
| <tablename>\_FID | DateTime | No | Server’s date and time at the creation of the new record | Defined in stored procedures and queries as “DateTime.Now”. Can’t be used as a parameter in queries |
| <tablename>\_LMB | nvarchar(20) | Yes | Id of the user who last modified the record | Is a foreign key of ID in users table |
| <tablename>\_LMD | DateTime | Yes | Server’s date and time at the creation of the new record | Defined in stored procedures and queries as “DateTime.Now”. Can’t be used as a parameter in queries |

## Data Tables:

### Users

|  |  |
| --- | --- |
| **Description** | Stores user’s information including password, contact information |
| **Constraints** |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Allow Null** | **Used For** | **Constraints** |
| users\_UserID | nvarchar(20) | No | Id assigned to the user (auto-generated) to act as primary identifier | Primary Key |
| users\_EmailID | nvarchar(80) | No | Email id used during registration | Must follow the “x@x.x” format |
| users\_PasswordHash | nvarchar(20) | No | Hash used to encrypt password |  |
| users\_PasswordSalt | nvarchar(20) | No | Salt used to encrypt password |  |
| users\_Phone | nvarchar(12) | Yes | User’s contact number to send notifications via sms |  |
| users\_LastLogin | DateTime | No | Last login date of the user used to identify unread alerts. |  |
| users\_OTP | numeric | Yes | Saves the confirmation code to be used for login in place of password | Must be in range of “1000000” and “9999999” |
| users\_OTPValidTill | DateTime | No | Exact date and time when confirmation code is invalidated |  |
| users\_TermsAgreed | Boolean | No | Identifies whether user has agreed terms and conditions | Must be false when creating new record |
| users\_PreferredContact | nvarchar(5) | No | Identifies whether phone or email is preferred. | Enum with values from (“Phone”, “Email”). Defaulted to “Email”. |
| users\_ReceiveNotifications | Boolean | No | Identifies if user should receive notification by their preferred contact. App notifications are always on, irrespective of this setting. | Defaulted to “True” |

### Alerts

|  |  |
| --- | --- |
| **Description** | Stores alert information for each user |
| **Constraints** | Must have a corresponding user record in “Users” table. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Allow Null** | **Used For** | **Constraints** |
| alerts\_AlertID | nvarchar(20) | No | Id assigned to the alert (auto-generated) to act as primary identifier | Primary Key |
| alerts\_UserID | nvarchar(20) | No | User ID associated to this alert | Foreign key to users\_UserID |
| alerts\_AlertTitle | nvarchar(50) | No | Title of the alert used as headline in alerts page, and subject in emails | Must be at least 10 characters |
| alerts\_AlertDescription | ntext | Yes | Text of the alert used as body in emails, and as description in alerts page. |  |
| alerts\_StartDate | DateTime | No | Date and time when alert was set as active. | Can not be sooner than alerts\_FID |
| alerts\_EndDate | DateTime | No | Date and time when alert is invalidated and/or is not active. | Can not be sooner than alerts\_FID |
| alerts\_DisplayInCalendar | Boolean | No | Identifies whether the alert is to be displayed as an event in calendar. | Defaulted to “False” |
| alerts\_ActionToTake | nvarchar(20) | Yes | Identifies the action to take, or the page to link when user taps on alert | Enum with values from (“DocumentSign”, “MakePayment”)  -- To add more possible values for enum |
| alerts\_IsPushAlert | Boolean | No | Identifies whether the alert is used as push notification and email/sms notification | Defaulted to “False” |
| alerts\_IsActive | Boolean | No | Identifies whether the alert is acted up on. Used by notification system in conjunction with alerts\_EndDate | Defaulted to “True” |
|  |  |  |  |  |

### Documents

|  |  |
| --- | --- |
| **Description** | Stores document information for each user |
| **Constraints** | Must have a corresponding user record in “Users” table. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Allow Null** | **Used For** | **Constraints** |
| documents\_DocumentID | nvarchar(20) | No | Id assigned to the document (auto-generated) to act as primary identifier | Primary Key |
| documents\_UserID | nvarchar(20) | No | User ID associated to this document | Foreign key to users\_UserID |
| documents\_DocumentTitle | nvarchar(50) | No | Title of the document to be displayed in list of documents (e.g. “Refund Policies” or “Insurance Agreement” | --To identify if it should be constrained to an enum |
| documents\_FilePath | nvarchar(200) | No | Path of the sharepoint template to be used for unsigned documents and file generated after signing |  |
| documents\_SignRequired | Boolean | No | Identifies if document requires signature |  |
| documents\_IsSigned | Boolean | No | Identifies if document is signed or if it is awaiting signature | Defaulted to “False” |
| documents\_SignByDate | DateTime | No | Identifies the last date by which document has to be signed. Used by notification system to create alerts | Can not be sooner than documents\_FID |
|  |  |  |  |  |

### DocumentHistory

|  |  |
| --- | --- |
| **Description** | Stores document history for each document |
| **Constraints** | Must have a corresponding user record in “Documents” table. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Allow Null** | **Used For** | **Constraints** |
| document\_history\_DocumentID | nvarchar(20) | No | Id assigned to the document (auto-generated) to act as primary identifier | Foreign key to documents\_documentID |
| document\_history\_HistoryTitle | nvarchar(50) | No | Title of the history item to be displayed in history log of the document |  |
| document\_history\_UserID | nvarchar(20) | No | Identifies the user who took the action for this history log (e.g. user who signed the document) | Foreign key to users\_UserID |
| document\_history\_ActionDate | DateTime | No | Identifies the date the action was taken. | -- To identify if constrained by types of action |
|  |  |  |  |  |

### PaymentMethods

|  |  |
| --- | --- |
| **Description** | Stores payment methods for each user |
| **Constraints** | Must have a corresponding user record in “Users” table. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Allow Null** | **Used For** | **Constraints** |
| payment\_methods\_paymentID | nvarchar(20) | No | Id assigned to the payment (auto-generated) to act as primary identifier | Primary Key |
| payment\_methods\_UserID | nvarchar(20) | No | User ID associated to this payment | Foreign key to users\_UserID |
| payment\_methods\_PaymentType | nvarchar(10) | No | Identifies whether it is a credit card or apple pay wallet etc | Enum with values from (“CreditCard”, “ApplePay”, “GooglePay”, “DebitCard”) |
| payment\_methods\_CardNumber | char(16) | Yes | Identifies the card number if it is a card payment method | Constrained to be exact 16 characters if payment type is credit card or debit card. Otherwise, null. |
| payment\_methods\_CardName | nvarchar(50) | Yes | Identifies the name on card if it is a card payment method | Constrained to be at least 5 characters if payment type is credit card or debit card. Otherwise, null. |
| payment\_methods\_expirydate | char(4) | Yes | Identifies the card expiry date. | Format as (MMYY). Constrained as per the format. |
| **--- Fields below this row are to be identified later** |  |  |  |  |
| payment\_methods\_appleID | nvarchar(20) | Yes | Identifies the apple pay wallet id. |  |
|  |  |  |  |  |

## State Zero Data:

Below is the data structure that will serve as starting point for the application to build the database on. This is the state of database required for application to function. State zero contains all the constraints, stored procedures, table structure and base data (e.g. sysadmin user, permissions if any).