**Trip MN Database Tables**

1. User
2. UserAcount
3. Item
4. ItemBidding
5. Transaction
6. Coupon
7. Token
8. UserCoupon
9. **User**:

This table is used to store basic information of the User. The complete design and columns are listed below.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Type** | **Length** | **Description** | **Mandatory** |
| id (PK) | number | Min: 4  Max:20 | Unique id of the user which is Auto generated. This should be unique across the application. | Yes |
| uname | varchar | Max:50 | Name of the user. This should be unique across the application. | Yes |
| email | varchar | Max:50 | Email id of the user. This should be unique across the application. | Yes for User and No for Admin. |
| mobno | Number | Max:10 | Mobile number of the user. This should be unique across the application. | Yes for User and No for Admin. |
| pic | Blob | NA | Profile picture of the user. | No |
| address | varchar | Max: 200 | Address of the user. | No |
| status |  |  | Status of the user. It can have values like **active/inactive**. | Yes |
| userType | varchar | Max: 50 | Type of the User. He can be either normal User or Admin. Possible values can be User/Admin. | Yes |
| password | varchar | Max: 50 | Password of the Admin. | Yes for Admin and No for User. |

1. **UserAccount:**

This table is used to store Account information of the User.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Type** | **Length** | **Description** | **Mandatory** |
| id (PK) | number | Min: 4  Max:20 | Unique id of the user which is Auto generated. This should be unique across the application. | Yes |
| user\_id (FK) | number | Min: 4  Max:20 | Unique id of the user which is Auto generated. This should be unique across the application. | Yes |
| accountType | number | NA | Account Type. It can be Loyalty/Token. For now assume it as token only. | Yes |
| balance | number | NA | Current tokens available to the user which can be used for bidding. | No |
| cumulativeBalance | number | NA | Total tokens credited to user. This is the combination of Current tokens (Unused tokens) and Used tokens. | No |

1. **Item:**

This table is used capture all the items add by the Admin from Desktop application. The complete design and columns are listed below.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Type** | **Length** | **Description** | **Mandatory** |
| id (PK) | number | Min: 4  Max:20 | Id of the item/product. | Yes |
| categoryType | varchar | Max:50 | Type of the Item whether it is **Token/Item**. | Yes |
| brand | varchar | Max:50 | Brand of the item. | Yes |
| endDate | dateTime | NA | Expire date of the Item. | Yes |
| image | blob | NA | Image of the Item. | Yes |
| price | number | NA | Price of the Item. | Yes |
| description | varchar | Max: 255 | Description of the Item. | Yes |
| termsAndConditions | varchar | Max: 255 | Terms and Conditions of the Item. | Yes |
| name | varchar | Max: 255 | Name of the Item. | Yes |
| active | varchar | Max: 255 | Active can be **true/false** | Yes |

1. **ItemBidding:**

This table is used to keep track of the Items bidding. The complete design and columns are listed below.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Type** | **Length** | **Description** | **Mandatory** |
| id (PK) | number | Min: 4  Max:20 | Id of the item/product. | Yes |
| winningUser\_id (FK) | number | Min: 4  Max:20 | Id of the User. | Yes |
| item\_id (FK) | number | Min: 4  Max:20 | Id of the Item. | Yes |
| biddingTokens | number | NA | Number of tokens redeemed for the Item. | Yes |
| endDate | dateTime | NA | Expire date of the Bid. | Yes |
| retryCount | number | NA | Retry Count of the Same user even though he is leading one. The user needs to be de activated if count reaches 10. | Yes |

1. **Transaction:**

This table is used to record every transaction of the Item bidding. The complete design and columns are listed below.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Type** | **Length** | **Description** | **Mandatory** |
| id (PK) | number | Min: 4  Max:20 | Id of the item/product. | Yes |
| account\_id (FK) | number | Min: 4  Max:20 | Account Id of the User. | Yes |
| bidding\_id (PK) | number | Min: 4  Max:20 | Bidding Id of the Item. | Yes |
| amount | number | NA | Amount of the token. | Yes |
| status | varchar | NA | Status of the Transaction. Possible values can be active/inactive. | Yes |

1. **Coupon:**

This table is used to show available Coupons. The complete design and columns are listed below.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Type** | **Length** | **Description** | **Mandatory** |
| id (PK) | number | Min: 4  Max:20 | Id of the item/product. | Yes |
| couponType | varchar | Max: 200 | Coupon Type. | Yes |
| amount | number | NA | Value of the Coupon. | Yes |
| couponCode | varchar | Max: 200 | Code of the Coupon. | Yes |
| expiryDate | dateTime | NA | Expiry date of the Coupon | No |
| status | varchar | NA | Status of the Coupon. Possible values can be active/inactive. | Yes |

1. **Token:**

This table is used to show the available tokens. The complete design and columns are listed below.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Type** | **Length** | **Description** | **Mandatory** |
| id (PK) | number | Min: 4  Max:20 | Id of the item/product. | Yes |
| tokenQuantity | varchar | Max: 200 | Token Quantity | Yes |
| amount | number | NA | Amount of the Token quantity. | Yes |
| expiryDate | dateTime | NA | Expiry date of the Coupon | No |
| status | varchar | NA | Status of the Token. Possible values can be active/inactive. | Yes |

1. **UserCoupon:**

This table is used to show the Coupons selected by the User. The complete design and columns are listed below.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Type** | **Length** | **Description** | **Mandatory** |
| id (PK) | number | Min: 4  Max:20 | Id. | Yes |
| coupon\_id (FK) | number | Min: 4  Max:20 | Id of the Coupon. | No |
| user\_id (FK) | number | Min: 4  Max:20 | User Id who won’s the Coupon. | No |

**Tables Creation:**

**User/Admin Signup:**