**Design Template-Farmer2Home**

Project Description:

In Farmer2Home project, we are enacting the complete real life vegetable and fruits market (SabjiMandi).

Basically farmers would upload the products on the website according there frequency and preferences for their products like quality, quantity and price.

After login customers can buy products from their choice of farmers.

Also Customer can subscribe to different products according to their choices. So when farmers upload that particular product customers will get notification.

And there will be a separate customer-farmer channel where customer can personally chat about products and bargaining.

**Modules**:

* USER\_ACCOUNT – for handing all user related functionality like login.
* PRODUCTS- will be related to products related functionality like adding ,updating products
* CART- all cart functionalities like adding, deleting products and checkout
* SUBSCRIPTION- user’s subscription for products.
* NOTIFICATION- for sending notification to users
* FEEDBACK- customer can give feedback on products to farmers
* CUSTOMER-FARMER CHANNEL

1. **DB Tables**:

* USER\_TABLE
* PRODUCT\_TABLE
* CATEGORY\_TABLE
* CART\_TABLE
* ORDER\_TABLE
* SUBSCRIPTION\_TABLE

1. Table Details

Table: USER\_TABLE

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sno.** | **Field Name** | **Type** | **Length** | **Null** | **Description** |
|  | ID | VARCHAR | 50 | NOT | PRIMARY KEY(email or phone\_no) |
|  | NAME | VARCHAR | 50 | NOT | Basically a user name. |
|  | ROLE | CHAR | 1 | NOT | Specfies the user’s role(C-customer,F-farmer & A-admin) |
|  | ADDRESS | VARCHAR | 200 | NOT |  |
|  | IS-ACTIVE | BOOLEAN | 1 | NOT | Specify if user active or not(true-active & false-inactive) |
|  | DATE | DATE | - | - | Date of Registration. |
|  | MOBILE | INT | 10 | NOT | Will be UNIQUE |

Table: PRODUCT\_TABLE

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sno.** | **Field Name** | **Type** | **Length** | **Null** | **Description** |
| **1** | ID | VARCHAR | 50 | NOT | PRIMARY KEY(email or phone\_no) |
| 2 | NAME | VARCHAR | 50 | NOT | Basically a user name. |
| 3 | DESCRIPTION | VARCHAR | 200 | CAN BE | Product description |
| 4 | PRICE | DOUBLE | 10 | NOT | Products Price entered by farmer. |
| 5 | TYPE | CHAR | 1 | NOT | Type of Product based on Weight or Piece(W-weight & P-piece) |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| 6 | FARMER-ID | VARCHAR | 10 | NOT | Foreign key of User table where role=F |
| 7 | QUANTITY | DOUBLE | 10 | NOT | Based on Weight or no. of pieces. |
|  |  |  |  |  |  |
| 8 | CATEGORY | VARCHAR | 10 | NOT | Value=Fruit or Vegetable |

Table: CART\_TABLE

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sno.** | **Field Name** | **Type** | **Length** | **Null** | **Description** |
| **1** | ID | VARCHAR | 50 | NOT | PRIMARY KEY(email or phone\_no).Its value will be user-id |
| 2 | PRODUCTS | VARCHAR | 250 | CAN BE | This field will contain product-id along with quantity added by user in json format |
|  |  |  |  |  |  |
| 3 | DATE | DATE | - | - | Date on which products added. |
| 4 | STATUS | CHAR | 1 | NOT | Status of products in the cart(I-incart & O-ordered) |

Table: ORDER\_TABLE

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sno.** | **Field Name** | **Type** | **Length** | **Null** | **Description** |
| **1** | ID | VARCHAR | 50 | NOT | PRIMARY KEY(email or phone\_no).Its value will be user-id |
| 2 | PRODUCTS | VARCHAR | 250 | CAN BE | This field will contain product-id along with quantity added by user in json format |
|  |  |  |  |  |  |
| 3 | DATE | DATE | - | - | Date on which products added. |
| 4 | STATUS | CHAR | 1 | NOT | Status of products in the cart(D-Delivered) |

Table: SUBSCRIPTION\_TABLE

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sno.** | **Field Name** | **Type** | **Length** | **Null** | **Description** |
| **1** | CUSTOMER-ID | VARCHAR | 50 | NOT | Foreign Key->(USER-ID in USER-TABLE) |
| 2 | PRODUCT-ID | VARCHAR | 50 | NOT | Foreign Key->(PRODUCT-ID in PRODUCT-TABLE) |

**X-Matrix**

|  |  |  |
| --- | --- | --- |
| **Name of the Module** | **List of operations/methods** | **Tables Involved** |
| User-Account | CRUD operation’s , Validation | USER-TABLE |
| Products | CRUD operation’s,  Filter Products , get List of farmers | PRODUCT-TABLE  USER-TABLE  SUBSCRIPTION-TABLE |
| Cart | CRUD operation’s ,getTotalPrice, addToCart , getCartProducts() | USER-TABLE  PRODUCT-TABLE  CART-TABLE |
| Subscription | Subscribe , unsubscribe | SUBSCRIPTION-TABLE  USER-TABLE  PRODUCT-TABLE |
| FeedBack | Giving Feedback by customer, getting list of feedback given by customer , getting a specific feedback | FEEDBACK-TABLE  USER-TABLE |