eRation

Digitizing Public Foodgrain Delivery System

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Problem Statement:

The current public foodgrain distribution system faces several challenges, including a lack of transparency, inefficiency, and the potential for black marketing by unscrupulous distributors. Ration cardholders often struggle to obtain timely information about the availability of essential commodities, leading to inconvenience and frustration.

The absence of a digitalized platform exacerbates these issues, making it difficult for administrators to monitor and manage the distribution process effectively. This lack of transparency not only hinders the smooth functioning of the system but also opens avenues for malpractices such as hoarding and selling food grains in the open market at inflated prices.

Our project seeks to address these challenges by introducing a user-friendly digital platform that empowers ration cardholders with information on stock availability and facilitates online booking. Furthermore, administrators gain comprehensive oversight to ensure fair and transparent distribution, ultimately reducing the scope for black marketing and enhancing the overall efficiency of the public foodgrain distribution system.
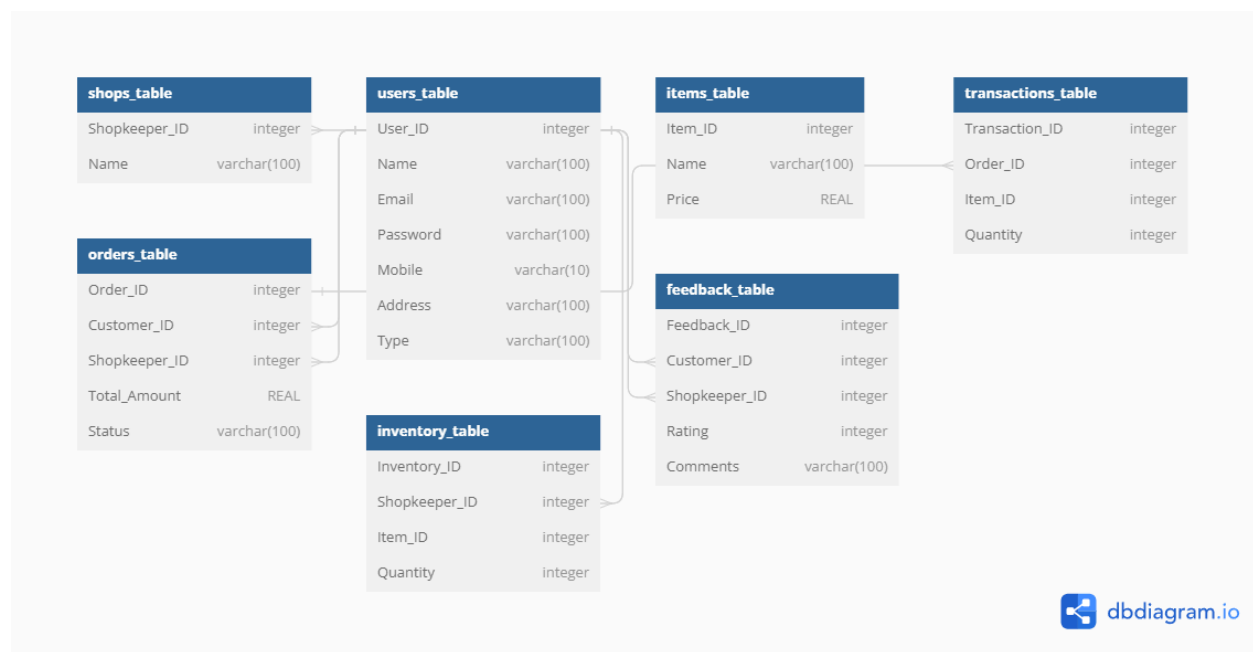
Project Description:

Our project aims to modernize the government ration delivery system, providing a user-friendly digital platform for both ration cardholders and administrators. Ration cardholders can easily check stock availability, book online, and receive real-time updates. Administrators have full access to monitor and manage the system, ensuring transparency and reducing the chances of black marketing.

Proposed Webpages :

1. Home page
2. Register and login page for different users like shopkeeper,customer and admin.
3. For Admin:
   i.   Home page

ii. This home page will have details regarding all the customers,shops and items.Along with this, this page has functionality to add/remove any new customer or new shopkeeper.

4. For shopkeeper:
   i. Home page.
   ii. This page will contain all the details regarding placed orders and the items left in the inventory.After every order placed the inventory will be updated accordingly.

5. For customer:
   a. Home page.
   b. Shop page(It will have the list of all the shops nearby). c)Orders page(where the customers can place orders from their desired shop). d)Feedback page(the customer can give feedback for the shop from where he/she has placed his/her order).

Database Design :

shops_table
| Shopkeeper_ID | integer |
| Name | varchar(100) |

orders_table
Order_ID	integer
Customer_ID	integer
Shopkeeper_ID	integer
Total_Amount	REAL
Status	varchar(100)

users_table
User_ID	integer
Name	varchar(100)
Email	varchar(100)
Password	varchar(100)
Mobile	varchar(10)
Address	varchar(100)
Type	varchar(100)

inventory_table
Inventory_ID	integer
Shopkeeper_ID	integer
Item_ID	integer
Quantity	integer

items_table
Item_ID	integer
Name	varchar(100)
Price	REAL

feedback_table
Feedback_ID	integer
Customer_ID	integer
Shopkeeper_ID	integer
Rating	integer
Comments	varchar(100)

transactions_table
Transaction_ID	integer
Order_ID	integer
Item_ID	integer
Quantity	integer

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Technologies Used: