Online Food Ordering System

→ Description

<mark>Online Food Ordering System</mark>
The main objective of online food ordering system is to automate the existing manual system with the help of
advance computerized software so, that valuable data can be stored for longer period with easy accessing and
manipulation of the same.

- The registered user:

- **User** can access the account with valid credentials.

- **User** can surf the food items according to categories,
Cart and online payment options are available to user.

- **User** can track their orders with the food details.

- Admin:

can handle the functionalities like add new
food items, edit/delete food items, Enable/Disable the food items according to season and availability. Admin
have authority to view order details and update the delivery status of food. The payment transaction and user
details are also viewable to admin.

➔ Requirements:
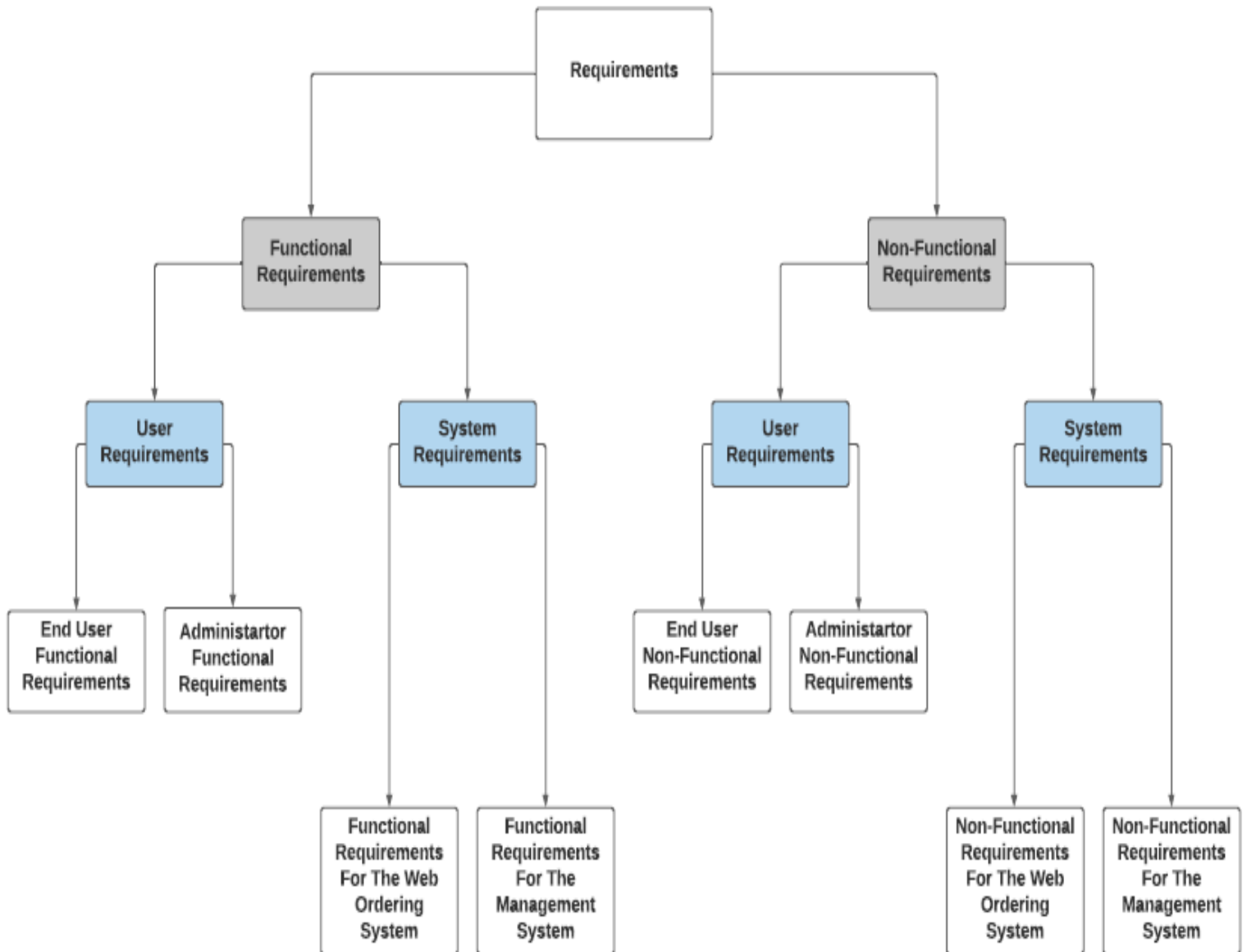
User
Requirements
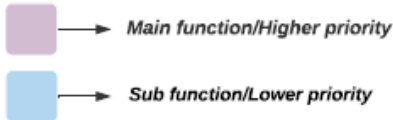
End User Functional Requirements

- Visitors new to the site should be able to register by themselves using their email address and their credentials should be stored in a database.
- Registered users should be able to access all the website features with valid credentials (Login Authentication).
- Users should be able to edit their information (Address, Phone Number, etc...)
- Users should be able to view a complete list of categories of food items available through the site.
- Users should be able to search for food items by related attributes. For example, users might search for a famous dish by the type of cuisine
- Users should be able to select food items and add them to their carts for future purchase.
- Users should be able to modify the items in the cart; by adding or deleting items from their carts before checkout.
- Users should be able to check their cart, total price and the payment option before checking out.
- Users should be able to keep track of the status of items they have ordered and its details.
- Users should be able to receive a confirmation email displaying their order details.

User
Requirements

Administrator Functional Requirements

- Admin should be able to add/delete/edit food items displayed on the site.
- Admin should be able to enable/disable food items depending on the availability.
- Admin should be able to add/delete users.
- Admin should be able to view registered users' account details and their orders' details.
- Admin should be able to update the delivery status of food ordered by registered users.
- Admin should be able to view all users' transactions (orders).

System Requirements

Functions provided to the users of the web ordering system, namely restaurant customers.

Functional Reqirements For The Web Ordering System

Requirement ID	Requirement Statments	Must/Want	Comments
FR001.0.0	The website shall have a home page for registration or logging in.	Must	(Registration for a new customer and login for an already registered customer)
FR001.1.1	The website shall open a page for the registered customer to enter his details, unregistered users can't go for ordering.	Must	(Name, Address, E-mail Address, Phone number)
FR001.1.2	The website shall store the newly registered users' details in a database.	Must	
FR001.2.1	The website shall validate user's credentials.	Must	(login authentication in case of an already registered user)
FR002.0.0	The website shall display a list of food categories.	Must	(Breakfast, Lunch, Dinner, Dessert)
FR002.1.1	The website shall display a list of food items depending on the category that the customer chose.	Must	
FR002.1.2	The customer shall click on the item and add it to the cart.	Must	
FR002.2.1	The website shall have a search bar to search for food items.	Want	
FR003.0.0	The website shall have a navigation bar to display a list containing different page destinations.	Must	(Account, Cart, Track Your Order)
FR003.1.1	An "Account" page shall provide the customer with all his account details.	Must	(Name, Address, E-mail Address, Phone number)
FR003.1.2	The user shall update his information.	Want	(Address or E-mail Address or Phone number)
FR003.1.3	The user shall delete his account on the website	Want	
FR003.2.1	A "Cart" page shall list all the food items the customer chose along with the payment method and the total price before placing the order.	Must	
FR003.2.2	The "Cart" page shall provide the customer with the ability to delete/add items to the cart or edit the quantity or the payment method.	Must	
FR003.2.3	The customer shall receive a confirmation e-mail after checkout containing their order details and the order number and the total price.	Want	
FR003.3.1	A "Track Your Order" page shall provide the customer with his order details.	Must	(food items, delivery status and payment details)
FR003.3.2	The user shall cancel his order within 10 mins after placing the order	Want	

System Requirements

Functional Reqirements For The Management System

Requirement ID	Requirement Statments	Must/Want	Comments
FR001.0.0	The admin shall add/delete/update a food category displayed on the site.	Must	
FR001.1.1	The admin shall add/delete/update a food item in a category.	Must	
FR001.1.2	The admin shall update the price for a given food item.	Must	
FR001.1.3	The admin shall enable/diasble specific food items depending on the availabity in the restaurant.	Must	
FR001.1.4	The admin shall update additional information for a given food item.	Must	(Description, Photo, etc...)
FR002.0.0	The admin shall add/delete a customer.	Must	
FR003.0.0	The admin shall retrieve orders from the database along with its details and its status update either by its current status or order number or date or total price.	Must	(status update: pending, has been processed, out for delivery, delivered)
FR004.0.0	The admin shall update the delivery status of food in the database.	Must	
FR004.1.1	The admin shall cancel the order within 20 mins after the customer has placed the order or else mark the order as having been processed and remove it from the list of pending orders.	Want	
FR005.0.0	The admin shall retrieve customers' data from the database and display it in a form of columns and rows.	Must	(Name, Address, E-mail Address, Phone Number)

User Requirements

End User Non-Functional Requirements

- The website should be user friendly.
- The website should be portable.
- The website should be available at all times.
- The website should be fast.
- The website should not share personal data (home address, phone number, etc...).

User Requirements

Administrator Non-Functional Requirements

- The system should be reliable.
- The system should be secure.
- The system should be maintainable.
- The system should be efficient.
- The system should be safe to use.
- The system must be cost-effective.
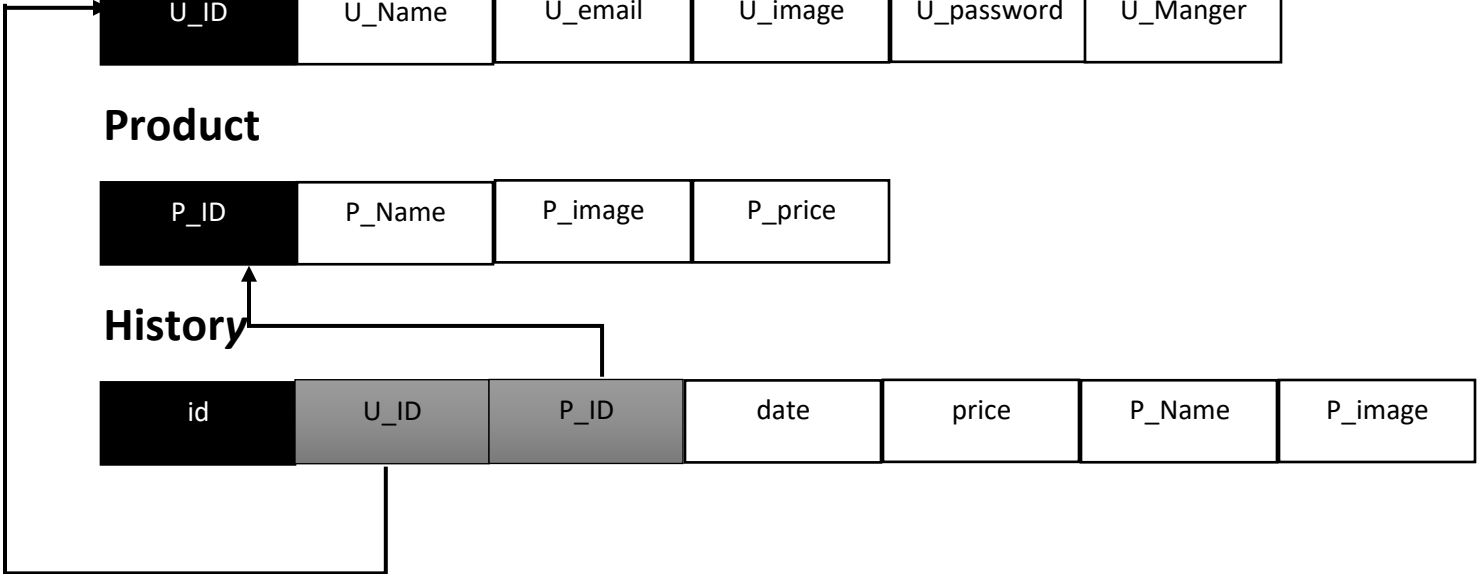
Relational Schema

Customer

U_ID	U_Name	U_email	U_image	U_password	U_Manger

Product

P_ID	P_Name	P_image	P_price

History

id	U_ID	P_ID	date	price	P_Name	P_image

Entity Description

These are the following Entities we are using in our project.

Customer:

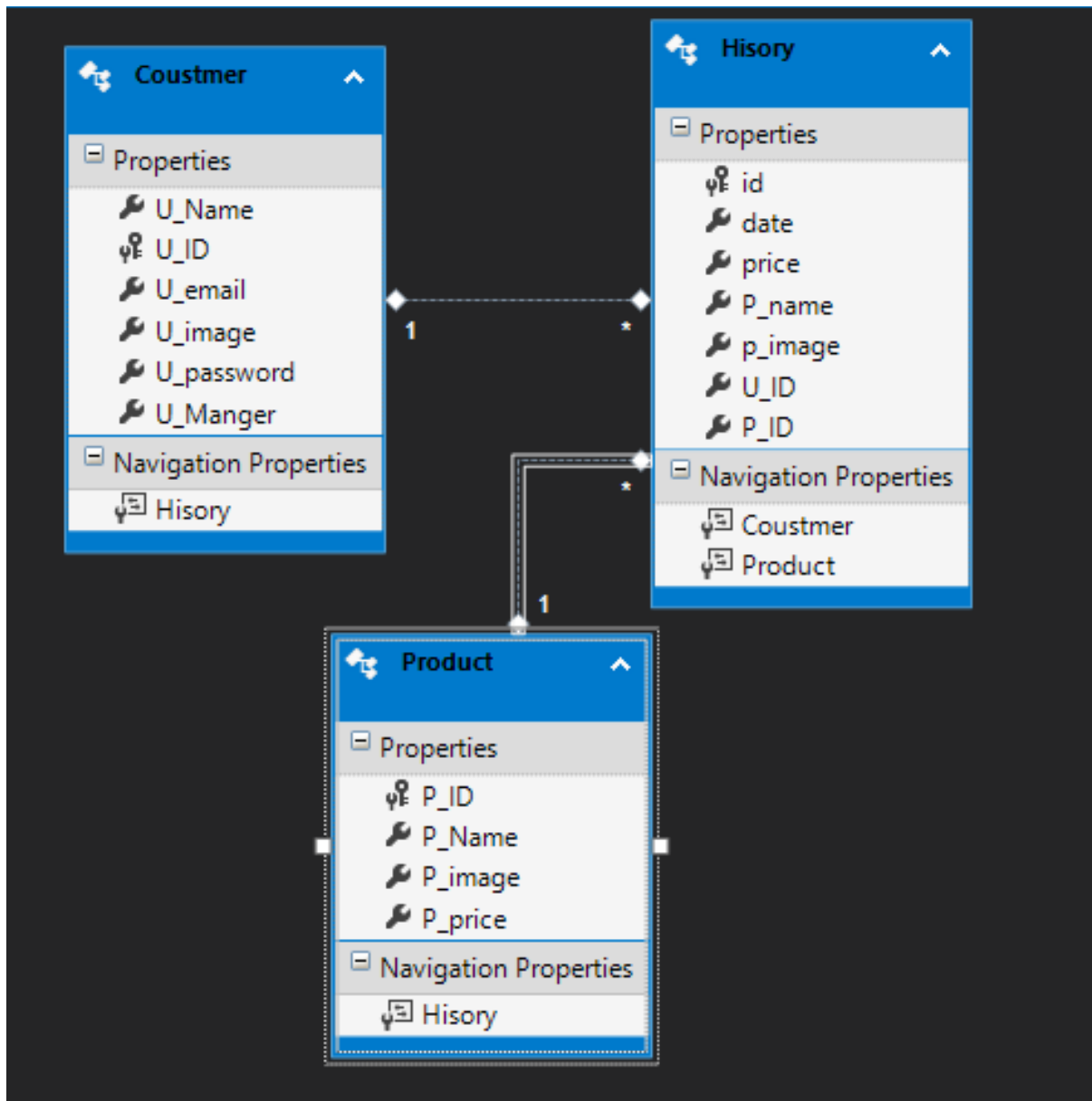Customer is a person who is going to order or just a visitor to our website.

Product:

Product is contained food item that is ordered by specific customer.

History:

History contains the order of the customer.

Tables with Relationships

Database Diagram

Hisory

🔑	id
	date
	price
	P_name
	p_image
	U_ID
	P_ID

Product

🔑	P_ID
	P_Name
	P_image
	P_price

Coustmer

	U_Name
🔑	U_ID
	U_email
	U_image
	U_password
	U_Manger

→ Class Diagram:

User

+ U_Name: string
+ U_ID: int
+ U_email: string
+ U_image: string
+ U_password: string
+ U_manager: string

+ SignIn()
+ SignUp()
+ Logout()
+ alterProfile()
+alterFood()

PaymentCards

+ CardNumber: string
+ CardName: string
+ CardDate: string
+ CardCode: string

+ add()

Food

+ P_Name: string
+ P_ID: int
+ P_image: string
+ P_price: string

+ addFood()
+ alterFood()

InsertionOrder

+ date: string
+ price: string
+ P_Name: string
+ P_image: string
+ U_ID: int
+ P_ID: int

+ buy()