PHASE 2 (DATA BASE)

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Website "Data requirements"

Users :

Our system refers the end-user who uses our service as users. namely because those willing to purchase must be registered to our website. this is to ensure any transaction must be attached safely to a customer. in turn, all customer must input their data such as Phone number, Email address, and account password. The customer may register as a personal user or a business user respectively. A personal user should also register their Names, ID card no, Home address, Nationality, the system will also assign the membership status attributes to the user data. For a business user, they should register their Business Name, Business ID, Office address, and their contactable website, in turn the system will assign a Partnership status according to much they use our system.

Admin :

Members of admin are responsible for day to day checking and maintaining the website. It's data requirements regarding each admin are including admin number, admin name(first and last name), gender, date of birth, position, and their role. The admin number is unique accross all clients(museum's name)

E-Ticket :

An e-ticket (electronic ticket) is a non-physical ticket required by the data to allow visitors to enter at the museum. The e-tickets are issued by system when a booking has been confirmed and paid. The e-ticket include data of Ticket_ID, description, price, customer_ID, Ticket_date, Ticket_type and Qr code so we can conclude by e-ticket the purchase costs associated with printing and mailing tickets will not take many cost and the security is guaranteed, because it is coded validation and eliminates the possibility of fake or duplicate e-tickets

Client :

Our client is a company/business owner that runs in the recreational park such as; museum, amusement park, zoos, etc. we offer them a better system to use. using this platform it'll be easier for them to sell their tickets and earn more customers. when a client agreed to use our system, their information will be stored in our database such as; company name, address, email, phone number, etc.

“Transaction requirements”

Data entry :

Enter the details of admin data

Enter the details of user data

Enter the details data of e-ticket

Enter the details of payment

Data update/deletion ;

Update/delete the details of a user.

Update/delete the details of an admin.

Update/delete the details of E-ticket.

Update/delete the details of client.

Data queries :

Data of queries required by the website admin views
Data of queries required by the website user views

(a) List the details of clients in a given city.

(b) Identify the total number of clients in each city.

(c) List the name of users that created based on the creation time.

(d) Identify the total number of user and the sum of e-ticket order.

(e) Identify the total number of admin in each fixed position at wax museum.

(f) List the clients name, address, email, phone number.

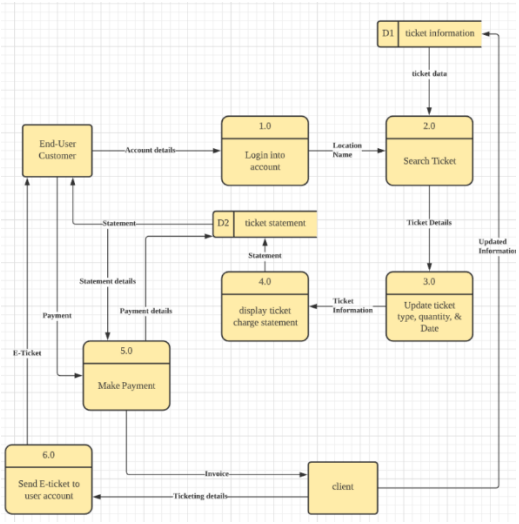
(g) List the details of at least 1 e-tickets that bought by user.

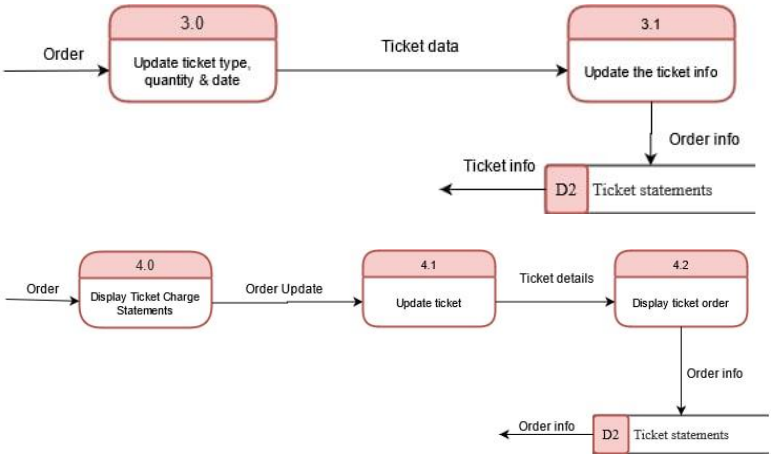
(h) Identify the e-ticket type that already sold by admin.

(i) List the available e-ticket by the admin.

A decision on managing the user views by providing a cross-reference analysis

Purpose of system :





Our website is a safe, convenient, and fair place to sell and buy e-tickets for museums all over the country. Through partnership with clients and ticket providers, we offer 100% valid security. Buying a ticket is also very easy, user can pay directly through our website, and the e-tickets will be sent to their email which has been registered. Our admin also provide customer services for a better user experience The child diagram processes are more detailed, illustrating the logic required to produce the output.

The zero diagram shows the process of how the customer buys the e-ticket through the website. Firstly the user must own an account then login to search the available tickets. Available tickets are stored in the ticket information data. After they searched the ticket it will update the ticket details; type, quantity, and date. Then it will display the ticket charge statement wich stored in the ticket statement data, and then the user will make a payment wich then will proceed the invoice to the client after that the client will provide the ticketing details that they got from the ticket information data the purpose of this is to send the e-ticket to the user account

The 3.0 child diagram is the process of e-ticket order that gonna be update ticket type, quantity and date where is the progress will be update the information about the e-ticket information . The 4.0 child diagram is the last step of displaying e-ticket information update before payment, so after the displaying the e-ticket info the ticket will be update again with the charge of the ticket that customers should pay

Performance

• The system will be developed with a suitable framework that is reliable, optimized and should not crash under heavy load.

• Responsiveness to view information shall take no longer than 5 seconds to appear on the screen.

• The system should be able to support 400 users concurrently.

• The system database shall accommodate required information without any fault.

• Should the system outputs faulty data, return system to a previous state without faults

Design

• Designing the system that should appeal and be accessible to all age groups and easily maintainable.

• The system should have common design philosophy, using similarly designed icons, colours and shapes.

• The design is optimized for a given functionality and avoids distractions with unnecessary elements.

• The design should be immediately identifiable and be mixed and results in faulty information.

Security

• The system handles its payment via 3rd-party services like Stripe that primarily offers payment processing software and application programming interfaces for e-commerce websites and mobile applications.

• The system will be connected to the secured database.

• Seller and buyer will have access to the system with specific restrictions to database Access.

• The data within should leave no trace if its used outside internal bounds.