Cairo University
Faculty of Engineering
Computer Engineering Department
CMP 202

Introduction to Database Systems

Project Proposal Report

Team Number: #11

Team members:

Eman Othman Fathy	1	17
Muhammad Ahmad Hesham	2	17
Muhammad Alaa Abd-Elkhalek	2	24
Mahmoud Amr Muhammad	2	25

Contact info:

muhammad.mahmoud 99@eng-st.cu.edu.eg

Artifex

Description:

This application aims to create an environment for newbie and professional artists to present and spread their artwork among a wide network of users and customers and to enable those users to view, rate and buy great pieces of art. The application serves as a connection between artists who desire to sell their art work and customers. Through the application customers can choose between different categories of artwork, order them and get them shipped to their desired location then the artist receives the money through his bank account or by any means. The application includes a rating system and a scoreboard for artists who sell their work to help newbie artists stand out of the crowd.

Users and functionalities:

User:

- Creates an account.
- View galleries, leaderboard.
- Rate different pieces of artwork.
- Makes an order from art gallery.
- Make a custom order from a specific artist.
- sell his own artwork by providing some extra data about himself (for creating a profile).
- Apply for an exhibition organized by the admins.
- Accepts an invitation for an exhibition (as an artist) to present his artwork in front of audience.
- Get Art advisory and guidance from a group of experts to find the most suitable paintings to buy according to their art preferences (optional: may or may not exist in our project)
- Apply for becoming an expert. (optional: may or may not exist in our project)
 - As an Expert:
 - The user has to provide answers to some questions, view his artwork, provide information about his qualifications as an expert artist.
 - If accepted as an expert, experts receive surveys answered by customers, they process these requests and suggests the best paintings suited for the customers according to their artistic preferences (shown by the answers to the questions in the survey).

Admin:

- Communicates with users who desire to sell their artwork
- Deals with customer orders
- Bans any violating users
- Organizes exhibitions and invites artists
- Connects customers to artists for custom orders
- Accepts/refuses user application to becoming experts (optional: may or may not exist in our project)

Entities:

- User
- Admin
- Order
- Artwork
- Shipping company
- Artist
- Event (Exhibition)
- Categories
- Survey (optional: may or may not exist in our project)
- Expert (optional: may or may not exist in our project)

Viatorem

Description:

This project aims to facilitate international online shopping by lowering the additional fees of shipping and customs. Hence, it keeps track of two types of people: the ones who travel a lot and are willing to make some extra cash, and the ones who need to buy a specific good from a foreign country. Keeping in mind that the seller does not ship to our country or charges the buyer a lot of money unnecessarily. Thus, we connect those types of people to achieve mutual benefit.

The process is as follows: one puts a request of a good from a specific shop in some country, A traveler who is in that same country accepts the request, buys that product and when he comes back he delivers the product and makes a little extra cash which is nothing compared to the original intended cost. Our app does some extra steps to ensure the seriousness of both sides.

Users and functionalities:

Admin:

- Adds the money to the traveler's account when delivery is done.
- reviews the legality of the requested product(number of items, types).
- transfer the money the buyer paid to the traveler account when the product is delivered.
- Confirms that the traveler bought the right product from the shop in the request.
- Examines the feedback of both sides for any dissatisfaction.
- Bans any user who violates the policies of the app.

Traveler:

- sign up, login, logout, and change password.
- adds his trip details then he sees request that match his trip details.
- Accepts order requests.
- Cancel or delay the accepted order, and provide reasons.
- Suggests any other place offering better quality or lower price with the same quality.
- Reports if the product is currently unavailable.

- keeps updating the status of the shipment till delivery.
- Rates the proficiency of the buyer when delivery is done.

Buyer:

- sign up, login, logout, and change password.
- Makes an order request with the product name, shop, country and price.
- Cancel or modify pending order details.
- Pays the price of the product when someone accepts the request for the app to hold it until pending order is canceled or accepted.
- Rates the traveler for discipline and honesty when delivery is done.
- Report for damaged product when delivery is done.

Entities:

- Order
- Payment
- Product
- User
- Admin
- Login
- Permission
- Shop
- Country
- Category

Reservatio

Description:

This project aims to facilitate booking tickets, provide them with available train trips and improve train traffic by keeping track of trains status and organizing trains' timetables. This system will reduce the manual errors involved in booking and cancellation of tickets and make it suitable for the customers.

Users and functionalities:

Passenger:

- Determine his desirable specifications.
 - Start Station Destination
 - Date Train type
 - Coach class
- Cancel reservation.
- Change trip to another.
- Rate the trip.

Station Manager(Admin):

- Assigns drivers for different trips.
- Makes the trains' timetables.
- Keeps track of trains to know if they need repairing.
- Provides all information about the trips (train number departure time arrival time platform).
- Sends messages for each passenger if there are any changes.
- Reviews the feedback of the passengers to make any possible improvements.

Entities:

- Passenger
- Manger
- Train
- Ticket
- Trip
- Seat
- Station
- Country
- Event (Book Cancellation)
- Driver