Case Study 1: People’s Club:

This application will maintain the details of all club members who have registered for the

membership. Based on membership type, club member will be able to avail various facilities

in the club.

Membership type can be Regular Members, Premium members and Gold members. Validity

of the membership will be based on the type of membership.

A person can register for the membership and can update their details. On registration, a

membership id will be generated for the person who have successfully registered for the

club.

Admin can manage types of memberships such as adding new membership schemes,

modify existing schemes and remove any membership schemes.

A member can also view the expiry date of membership and can also check the number of

days or month left.

Design the database schema for the above case study and integrate it with the application.

Case Study 2: Your’s Bank

This application will maintain the account, customer and all transactions information in the

bank.

Employees can register customers. Customer should be provided with auto generated

customer id and account no on successful creation of customer in the bank.

Customer should only be able to update their personal details such as address, email id,

phone number and account password.

Employees can credit and debit account for any customer, but customer can only do it for

their account. On debit or credit, account balance should be correctly deducted or added.

All transactions done by either employees or customers must be recorded in the transaction

table and customer can view all the transactions done by home. Employee can view all the

transactions by any or all customers.

Design the database schema for the above case study and integrate it with the application.

Case Study 3: Gurukul College

This application should maintain the details of courses being conducted in the college and

maintain details of student and course they have registered for.

Student should be able to modify their personal details only and not the course.

Admin can add or update any course details and should be able to view all course and

student details of the college.

Application should also maintain the professor details and subject taught by them. Admin

can add, update or remove any professor, student and course in the college.

Case Study 4: ABC Inc.

This application should be maintain the employee and project details. An employee can

update their personal details only, while admin can add, update all details delete employees

and project.

Each employee must be associated with any one project running in the organization. Admin

can add a new project and update project duration. Admin can also change employee’s

project.

Design the database schema for the above case study and integrate it with the application.

Case Study 5: State Library

This application will maintain the records of all books available in the library and all the

books issued. The application should add new members, update existing members details

and delete if membership has expired.

A member can update their personal details only.

Admin can extend the membership and also can reissue the book to the member. Admin

has to keep track of all the books issues and to which member.

Admin can add new books, updated existing books like no. of books available, no. of books

issued and total no. of books in the library.

Design the database schema for the above case study and integrate it with the application.

Case Study 6: ABC Shop

This is application will maintain the details of all the items available in the shop. Every sale

and purchase event will be captured in a separate table and items quantity will be updated

in the items table accordingly.

This application should be able to prepare report of total quantity sold about a particular

item. Any sale will be made based on quantity available. If quantity reaches a reorder point,

application will have an option to order the item with specific quantity.

Design the database schema for the above case study and integrate it with the application.

Case Study 7: Airline Reservation

This application will maintain the details of flights in the system. Application should be able

to add new flights, update existing flight details like source and destination and delete any

flights if not operational.

Application can add new passengers and update passengers details. All bookings of flight by

any passenger should be recorded.

Application should be able to prepare reports on passengers who have booked a particular

flight or list of passengers booked for a particular flight.

Design the database schema for the above case study and integrate it with the application.

Case Study 8: Loan App

This application should be developed to provide loan to the registered customers. All

customers details needs to be maintained and details can be updated and deleted. All loan

type should be managed by adding new loan type or modify existing and deleting if that

loan type is no more in existence.

All customer details and loan availed information should be generated. Application should

have the options to search customers details who have availed a particular loan or all the

loans availed by a customer.

Design the database schema for the above case study and integrate it with the application.

Case Study 9: Medico App

This application should be developed for a medical shop which maintains the details of all

the medicines sold in the medicine shop.

Application should keep track of all sales and purchases of the medicines. Each new

medicine should be added in the system and medicine quantity or price should be updated

as and when required.

Application should keep track of all the sales and purchases and update the price and

quantity accordingly.

Each should be reordered if it reaches to a reorder point and and it should be updated

accordingly.

Design the database schema for the above case study and integrate it with the application.

Case Study 10: Exam App

This application will contain a set of questions(around 20) and their multiple choice(4 ) with

one correct answer. Each question will have certain marks. If the user want to take the test

all set of question with choices should appear on the screen one by one and will be given an

option to select an answer.

User will be rewarded with the marks based on choice of answers. A user needs to first

register in the app to appear for the test.

A separate record will be maintained for user on marks obtained by the user and reports

will be generated on demand.

Design the database schema for the above case study and integrate it with the application.

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