

Bicycle Rental System

This DBMS will be used at a bicycle rental store. Different levels of permissions are needed for different users.

- The store/dock manager should be able to add/update/delete the bicycle. They will be in charge of setting the stock for bicycles as well as the daily rental rate.
- Cashiers should have the read-only view of the list of bicycles. They should be able to manage the list of customers and the bicycles they rent.

At first, the customer needs to register with the system by giving appropriate details.

At check out, a customer barrows one or more bicycles. The cashier looks up the customer by their phone number. If the customer is a first time customer, the cashier asks their full name, email, phone number, etc, and then registers them in the system. The cashier then releases bicycles from the docks and records them in the system.

When the customer returns to the store (same or in different location), they will bring the bicycles they rented. If a bicycle is lost the customer should be charged the price of the bicycle. The cashier should mark the bicycle as lost and this will reduce the stock. There is no need to keep track of lost bicycles. All we need to know is the number of bicycles in stock and how much the customer was charged.

For other bicycles, the customer should be charged based on the number of days and the daily rental rate.

We issue discount coupons from time to time. The customer can bring a coupon when returning the bicycle.

It's possible that a customer returns the bicycle they have rented on multiple visits.

We need to track of the

-top customers

-revenue per day, month and year

Roles

- Manager
- Cashier
- Customer