

Lab Task: One

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The classes that were designed for this scenario are the following -

- User
- VehicleDescription
- VehicleRegistration
- DatabaseHandler
- Database

The assumptions made for the design -

1. Every user must have a national ID card. This will act as a unique identifier.
2. No vehicle registration can take place without a complete vehicle description.
3. The database handler will only allow authorized access to the database.
4. There is only one owner per vehicle but a person can own multiple vehicles.
5. Every vehicle must have a vehicle identification number (VIN) which is unique.
6. All required monetary transactions are satisfied.
7. A database is available with sufficient memory to allocate space for registration, vehicle, and user related details.
8. The database will not discard any expired registration related details.
9. The database will store every registration information along with all of their renewal dates.
10. After registration renewal the registration number will remain the same only the relevant changes will be updated.
11. Renewals can be tracked through the change timestamps associated with every (vehicle , owner) pair.