

**DEPARTMENT OF COMPUTER ENGINEERING**

**DATABASE MANAGEMENT SYSTEM**

**MINI PROJECT ASSIGNMENT NO: 02**

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| **GROUP ID:** | 01. |
| **GROUP MEMBERS:** | 1. Team Leader: Niranjan Patil(SCSB307). 2. Harshada Patil(SCSB302).   3. Tushar Potale(SCSB312). |
| **TITLE:** | Vehicle Insurance Management System. |
| **REQUIREMENT**  **COLLECTION:** | * System should design in such way that there is no need to maintained records manually. * The customer should visit the insurance office to know the policy details. * The premium calculations need to be done automatically. * No need to visit the insurance office directly for policies is purchased. * Payment should have done using various online transaction methods. * Payments should have done through online by their credit cards and the receipts can be printed out immediately after the payment is done. * The new policy arrivals are intimated to the customer in time. * Provide a user-friendly interface to the agent. * Premium calculations are needed to be done online by the customers to know their premium value. * Premium periods and the policy renewal dates are intimated to the customers through message which is display on screen after user login. * The customer can buy their policies. Only this process is to be considered. The process after the damage of vehicle is not considered in the system. * A customer has one or many vehicles. * Each customer can purchase any number of policies. * Premium amount has to pay only once in the year. * An administrator can create and modify many policies. * A guest customer also sees policies. * Customer renews policies many times. |
| **ER/ EER DIAGRAM:** |  |

**Assumption:**

* The customer can buy their policies. Only this process is to be considered. The process after the damage of vehicle is not considered in the system.
* A customer has many vehicles.
* Each customer can purchase any number of policies.
* Premium amount has to pay only once in the year.
* Customer can pay the amount through credit card and debit card.
* An administrator can create and modify many policies.
* A guest customer also sees policies.
* Customer renews policies many times.

**Entities and key Attributes identified:**

Entities:

* Guest User
* Customer
* Policy
* Administrator
* Payment
* Vehicle Details

**Identify key attributes**

* Username is the key attribute for customer entity.
* Policy id is the key attribute for policy entity.
* Admin id is the key attribute for administrator entity.
* Payment id is the key attribute for Payment entity.
* Vehicle id and model number are the key attributes for vehicle details entity.

**Relationship identified between the entities:**

* Many guest users search form many policies.
* There are many policies are available and one customer search many policies.
* One customer has many policies.
* One customer buys and wants to renew one policy.
* There are number of vehicles which belong to one customer.
* One customer view payment number of times when he wants.
* One customer makes payment many times.
* Payment done for many policies since for many time.
* One admin creates many policies.
* One admin can modify many policies.

**Mapping Constraints and other attributes of entities:**

* For Customer entity, username, name, first name, last name, phone number, password, annual income, birth date, address, state, pin code, street name, number of vehicles.
* For vehicle details entity, vehicle type, model number, vehicle number, chassis number, cc, vehicle id, engine number, manufacturing year.
* For Policy entity, policy id, policy name, purchase date, premium, period of insurance, expiry date, term.
* For payment entity, date, card details, amount, payment id.
* For administrator entity, user name, admin id, name, password.

