

Group Members:

Reaad Kayum USI: 1028635

Lakeram Persaud USI: 1026752

Basudev Singh USI: 1028592

Holika Klass USI: 1021879

Shahrukh Khan USI: 1026738

Course: CSE 2102 – Database Management Systems

Institution: University of Guyana

Database Requirements Specification

MOTO INSURE

Reliance General Insurance

September 12th.

**Revision Sheet**

|  |  |  |
| --- | --- | --- |
| **Release No.** | **Date** | **Revision Description** |
| Rev. 0 | 09/12/18 | Final Creation and Release of Version 1 of this document |
| Rev. 1 | 09/28/18 | Creation of Conceptual and Logical Database design |
| Rev. 3 | 10/24/18 | Submission of Combined documents |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

|  |  |
| --- | --- |
| Image result for reliance general insurance | **Database Specifications Authorization Memorandum** |

I have carefully assessed the Database Specifications for the MOTO INSURE. This document has been completed in accordance with the requirements of the Reliance General Insurance System Development Methodology.

MANAGEMENT CERTIFICATION - Please check the appropriate statement.

\_\_\_\_\_\_ The document is accepted.

\_\_\_\_\_\_ The document is accepted pending the changes noted.

\_\_\_\_\_\_ The document is not accepted.

I fully accept the changes as needed improvements and authorize initiation of work to proceed. Based on our authority and judgment, the continued operation of this system is authorized.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

NAME DATE

Project Leader

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

NAME DATE

Operations Division Director

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

NAME DATE

Program Area/Sponsor Representative

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

NAME DATE

**Database Requirements Specification**

Table of Contents

Page #

1. General Information 6
2. Purpose 6
3. Scope 6
4. System Overview 6
5. Acronyms and Abbreviations 6
6. Database Identification and Description 7
7. Database Identification 7
8. Relationship 7
9. Database Administrative Information 8
   1. Responsibility 8
   2. Systems information 8
      1. Hardware configuration 8
      2. Support Software Available for Maintaining Database 9
   3. Security 9
10. Entities, Attributes and Relationships 10
11. ER Diagram – MOTO INSURE 11
12. Logical Database Design 12
13. Team Members Responsibilities 13
    * 1. **General Information**
    1. **Purpose**

The purpose of this database design is to allow Reliance General Insurance to keep record on insurance data of their clients and customers. This document will explain the purpose and features of the database system, its interfaces and constraints under which it must operate.

* 1. **Scope**

This database design is for the local motor insurance company, Reliance General Insurance. This database will be implemented to improve productivity for the company, which was a tedious task to do since they were using a manual method of paper based.

* 1. **System overview**

The database requests the user/s to login in to use the system. After authentication, the system allows the user to view the records of Reliance General Insurance which is categorized as Customer and Policy, users are allowed to add, edit and delete items in the database. The database is specifically designed to facilitate the collection of data from user input, processing the data and keeping track of customer payment plans, this will intern maximize productivity. By maximizing the companies’ work efficiency and productivity, the system will meet its user’s needs while remaining easy to understand and use.

* 1. **Acronyms and Abbreviations**

MID- Motor Insurance Database

HDD- Hard Disk Drive

RAM- Random Access Memory

TB- Tera Byte

* + 1. **Database Identification and Description**

1. **Database Identification**

Each table in the database can be identified by its entity name. These comprise of Customer and Policy labels.

1. **Relationship**

The tables within the database will have relationships existing among them. The customer will have strict association to their vehicle. The customer and vehicle will be linked to accidents involved.

The ER Diagram enclosed within this document shows the relationships existing in the database.

* + 1. **Database Administrative Information**

1. **Responsibility**

Database Administrator

Skills and Duties include:

* Processing MID vehicle updates received on a daily basis via reports from online system or e-mail.
* Dealing with MID reports on a daily basis, which will involve communicating with clients where further information is required in order to add a vehicle or to confirm that a vehicle cannot be added.

1. **Systems Information**
   * 1. **Hardware configuration**

**Processor (CPU):** Intel Core i5 or equivalent

**Memory:** 4 GB RAM

**Storage:** 512 internal Solid-State Drive (SSD) or 1 TB internal Hard Disk Drive (HDD)

**Monitor/Display:** 24” “LCD monitor

The database will be configured to occupy inhabitance on the disk of a windows machine

* + 1. **Support Software Available for Maintaining Database**

|  |  |  |  |
| --- | --- | --- | --- |
| Software | Name | Version | Function and major operating characteristics |
| Operating System | Windows | 10 pro | Provide a friendly user interface and allow user to access database software |
| SQL language | MySQL |  | Allows users to create, update, delete and retrieve data from database |

**3.3 Security**

The database is structured to allow all users, i.e. managers and other employees to have the same level of privilege in accessing the data stored in the database.

* + 1. Entities, Attributes and Relationships

Entities:

Customer (Cid, FName, LName, DOB, Address, Tele)

Policy (Pid, Coverage, Cost)

Relationships:

Owns (Cid, Pid, Date, Status)

Makes\_Claim (Cid, Pid, Date, Damage\_Assessment)

Attributes Defined

Cid - Driver’s Identification number

FName - First name of driver

LName - Last name of driver

DOB - Date of Birth of driver

Address - Address of driver

Tele - Contact number for driver

Pid - Policy Identification number

Coverage - Which plan driver chooses for vehicle, e.g. Third-party insurance or full coverage

Cost - Assurance paid by driver to insurance company for security

Status - The status of drivers account, e.g. Active or Dormant

Damage\_Assessment - Evaluation of vehicle if involved in accident

4.1

MOTO\_INSURE Version: 2 Date: 10/24/18

CLAIMS

CUSTOMER

POLICY

owns

Logical Database Design Diagram

|  |  |  |
| --- | --- | --- |
| OWNS | | |
| Primary Key, Foreign Key 1 | CID | integer |
| Primary Key, Foreign Key 2 | PID | integer |
|  | DATE | DATE |
|  | STATUS | Varchar |

|  |  |  |
| --- | --- | --- |
| Customers | | |
| Primary Key | CID | integer |
|  | FNAME | Varchar |
|  | LNAME | Varchar |
|  | DOB | DATE |
|  | ADDRESS | Text |
|  | TELE | Varchar |

|  |  |  |
| --- | --- | --- |
| MAKES CLAIM | | |
| Primary Key, Foreign Key 1 | CID | Integer |
| Primary Key, Foreign Key 2 | PID | integer |
|  | DATE | DATE |
|  | DAMAGE\_ASSURANCE | Text |

`

|  |  |  |
| --- | --- | --- |
| Policy | | |
| Primary Key, Foreign Key 2 | PID | Integer |
|  | COVERAGE | Varchar |
|  | COST | Decimal |
|  |  | [M, D] |

* + 1. Team Members Responsibilities

Reaad Kayum – Group Leader - Responsibilities

GitHub Account: <https://github.com/ReaadKayum>

* Lead and manage the project team
* Ensure group members complete tasks that they were assigned
* Source Code creation

Lakeram Persaud– Responsibilities

GitHub Account: <https://github.com/andrewblacks>

* Documentation update

Basudev Singh – Responsibilities

GitHub Account: <https://github.com/basudevsingh18>

* Manage deliverables according to plan
* Source Code creation

Shahrukh Khan – Responsibilities

GitHub Account: <https://github.com/shahrukh146>

* Testing solutions and validate objectives

Holika Klass – Responsibilities

GitHub Account: <https://github.com/Holika08>

* Documentation update
* Source Code creation