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Integrated Vehicle Insurance Management System

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ABSTRACT*:* The proposed vehicle insurance and lifetime value evaluation system is a web-based application that aims to develop a complete independent system to manage records of vehicle insurance companies. It is developed with the intent of providing such insurance companies an online platform for organized data handling, accurate processing, and efficient retrieval and storage of records. It is mandatory to buy motor insurance in India irrespective of the vehicle type, i.e. commercial or personal vehicle. Moreover, the premium amount of your motor insurance is decided based on the Insured Declared Value (IDV) of the vehicle. If you increase the IDV, the premium will rise and if you lower it, the premium reduce automatically.The coding is written in ASP.NET along with C# programming language. ADO.NET is connected with Microsoft SQL SERVER. Microsoft Visual studio 2015 version is used to implement this process. Windows 10 64 bit Operating system is used for the development process.

KEYWORDS*:-* Vehicle Insurance, Insured Declared Value, Lifetime value evaluation System

I.INTRODUCTION

Computerization is significant a neighborhood of of everyone's life nowadays – not only people but business companies, travel sectors, health care sectors, and many others. As world is moving forward, internet and technology have been the means that these sectors use to reach out to people and to acquire profit from the brand or service they assist.The proposed vehicle insurance policy system could also be a web-based application that aims to develop a complete and fully functional independent system to manage records of vehicle insurance companies. It is developed with the intent of providing such insurance companies an online based platform for accurate processing, organized data handling, and efficient retrieval and storageof data.

II. RELATED WORKS

The automobile industry has always focused on producing better vehicles. With the recent technological advancements, this industry has found great opportunities to reinforce and innovate. The Number of collected data on vehicle-related interactions is also increasing. Previously, automotive industry defined identifying attributes such as VIN, engine number, make, model, year and color of the car. These data originate at the creation of the car, and mostly stay unchanged if the vehicle was not subject to significant reconstruction. Dynamic attributes such as ownership related data include the owner, license plate, insurance and varietyof other kind of taxes. Even though it is changeable, these data do not frequently change either. In the last decade, the data we'd like to retain on vehicles and their interactions increased many folds. In this decade of disruptive technologies, we wish to record behaviors, interactions, and step by step history of events. It is beneficial to record who can drive the car, performance of the car, driver's driving performance, purpose of the journey (business or leisure), odometer readings at the beginning and end, signaling patterns, and much more.

III. EXISTING SYSTEM

Most of the micro insurance organizations are not having any existing fully computerized system which they're managing the within the type of Excel spread sheets. Data of agents, Insured persons, Policy details, insurers' list, TPA s (third party Administrators) data, etc are maintained using Excel sheets.

Complication of Existing System:
❖   Like many other existing system, this vehicle insurance management procedure is very traditional involving a plenty of paperwork.
❖   The present system cannot ensure effective data processing, so it is not secure. The system is very uneconomical, tedious, and timetaking.
❖   Due to lack of centralized data structure, it's extremely difficult to merge the data to research thestatistics.
❖   Difficult to search for adata.

❖ Possibility of duplicates,etc.

IV. PROPOSED SYSTEM

It is an automated system for calculating the vehicle amount for taking insurance. User can search their Insurance value and its premium for their vehicle directly. User can get Insurance by providing complete vehicle information. User can make insurance renewal and claim the insurance in online. Automatically system will generate renewal alert as SMS and email.

Precedence of Proposed System:

❖ User can search their Insurance value for their vehicledirectly.

❖ User can get Insurance online by providing the whole vehicle information.

❖ User can make insurance renewal online.

❖ Single user can add multiple vehicle details within the website under same username and password.

❖ For Claiming the insurance amount, user can report it directly through thiswebsite.

V. SYSTEM ARCHITECTURE
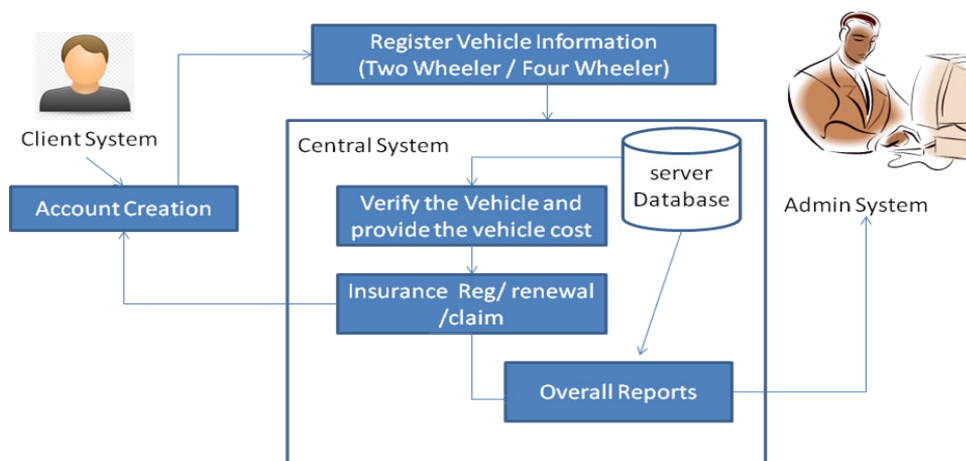
VI. METHODOLOGY

❖ Admin authentication: This module is especially supported by admin. System will cross check the user's name and password entered by the user for the authentication. The verification along with authorization will be done by the admin and then the user can proceed further. All the works are managed by admin and is under the control ofhim.

❖ User Registration: In this module, it will cover all the small details like name, password and many more details about the user while they register with our website. After successful registration, they'll be able to login in the website by their username and the enteredpassword.

❖ Vehicle Information: Two wheeler and Four wheeler vehicles can be insured through this website.The admin of this website should store the information about all the vehicle in the database.This centralized database will help to show the vehicle cost during the insurance.

❖ Vehicle Value Estimation: This comes under vehicle insurance registration. Automated vehicle cost estimation is vitalto insure the vehicle, because user may providewrongvalue information. But the system will notgive Wrong Information. When User provides   Vehicle Name, Model, Year Purchase, Company Name, this system will show The price of the vehicle. As per Indian Government, yearly depreciationis calculated. So vehiclecostcan be estimated.

❖ Vehicle Insurance Renewal: Vehicle insurance registration includes automatic vehicle amount detection, current value estimation, premium amount calculation, and payment. Consumer can renew it at any time.

VII. IMPLEMENTATION

The implementation process contains vehicle information registration, which is done by the admin of this application. When insuring the vehicle by the customer, the vehicle information will be displayed particularly the cost of the vehicle. Vehicle Insuring process involves with 3 numbers mainly, registration number of the vehicle, engine number and also the chassis number. Vehicle condition is verified through the vehicle photograph. Policy registration is connected with the policy number. Policy renewal and policy claim also connected with the policy registration number, which is a primary key of the policy registration table, and that key is the foreign key for policy renewal and policy claim data tables. This implementation process is the automated one to insure the vehicle. User of this system having user id, which is primary key for the users table, but it is the foreign key for all other. Single user id can be connected with multiple insurances, so single user can manage multiple vehicles' insurances in the family. The code completely written in ASP.NET along with C# programming language. ADO.NET is connected with Microsoft SQL SERVER. Microsoft Visual studio 2015 version is used to implement this process. Windows 10   64 bit   Operating system is used for the development process.

VIII. RESULT

Insurance as a concept is straightforward. You pay a specific sum of money as insurance premium to insure your asset against unfortunate events, which can cause monetary losses. In exchange for the premium, the insurance company promises to offer financial assistance in case of a list of events mentioned in the terms and conditions of the policy. The complications arise when one dives deeper into scenarios, jargon, and claim-related queries.This is a time consuming process and involves a lot of paper work.You do not have to visit an agent or an insurance company to purchase the policies. You are able to buy the desired plan from the comfort of your home or office. The entire procedure of online insurance is quick and hassle-free, which saves time and efforts. The companies offer a user-friendly interface to enable you to immediately buy the policy.With the implementation of our website paper works are minimized and everything is done online. An user can add the vehicles of his family under same user name and get information about the insurance status and make renewals online. This saves a lot of time foe the user and makes the process tension free. Ultimately reducing the man power and time consumption thereby reducing stress is the expected result of our website.

IX. CONCLUSION

The proposed vehicle insurance policy system could also be a web-based application that aims to develop a whole and fully functional independent system to manage records of vehicle insurance companies. It is developed with the intent of providing such insurance companies an internet based platform for accurate processing, organized data handling, and efficient retrieval and storage of records. Effectiveness, efficiency, and reliability are the key aspects that make this web-based vehicle insurance management system very useful forvehicleshowroom business. The proposed project is very flexible to handle new modules and features as per user requirements in future. It can also be integrated with other systems such as vehicle tracking system, vehicle information management system, vehicle registration system, etc.

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