Insurance Management System

A Mini Project Report Submitted by

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Of

BACHELOR OF ENGINEERING

IN

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KONGU ENGINEERING COLLEGE

(Autonomous)

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Certified that this is a bonafide record of work for application projects done by the above students for 22CDL41 – DATABASE MANAGEMENT SYSTEM LABORATORY during the academic year 2023 - 2024.

Submitted for the Viva	Voce Examination held on	
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Insurance Management System

- ABSTRACT
- INTRODUCTION
- SYSTEM REQUIREMENT SPECIFICATION
- SYSTEM FLOW CHART
- ER DIAGRAM
- IMPLEMENTATION
- SAMPLE INPUT AND OUTPUT
- CONCLUSION AND FUTURE ENHANCEMENT

ABSTRACT

The Insurance Management System (IMS) utilizes Structured Query Language (SQL) to manage and streamline insurance operations effectively. By automating tasks such as policy management, customer data handling, claims processing, and payment tracking, the IMS enhances operational efficiency and accuracy. SQL databases provide a robust framework for storing and retrieving vast amounts of data, ensuring data integrity and security. This system reduces administrative workload, minimizes errors, and facilitates quick access to critical information. The IMS supports comprehensive reporting and analytics, aiding in strategic decision-making. Ultimately, the IMS improves customer service and operational performance, making it a vital tool for modern insurance companies.

1. INTRODUCTION

1.1 Overview of the Project

The project entitled as "Insurance Management System" is developed in a manner to help all the Insurance Agency Members. It is developed using Visual Basic 6.0 as Front-End and MS Access as the Back-End tool.

The system is designed in such a way that it accepts and stores the input data, process and produce output under the direction of a detailed step by step stored programmed instruction. This system includes Client Dairy, Client Details, Add new Client, Policy Details and Payment Details information's and gives details based on the policy Number of the client. This system is necessary for Storing Information, assessing Workload and hence their efficiency. The System provides the adequate information to the concern for its smooth run.

1.2 About Existing System

MANUAL SYSTEM:

This system involves manual labours, which may lead to problems. It is very tedious to handle large volume of data and requires more time to handle the information, which results in slow processing.

Thus the computerization will make it very easy and accurate at all the processing stages. Report preparation requires more time so by computerizing, it will be very easy for the management. So the existing system is to be changed and put for computerization.

1.3 DRAWBACKS OF THE EXISTING SYSTEM

- 1. Tedious to handle large volume of data.
- **2.** Time consumption.
- 3. Maintaining the manual registers is cumbersome.
- **4.** Decision making is very slow.

2.SYSTEM REQUIREMENT SPECIFICATION

1.1 Hardware Specification

Processor : Pentium IV 2.4GHz

RAM : 512 MB DDR 2

Hard Disk : 80 GB

Floppy disk : 1.44MB

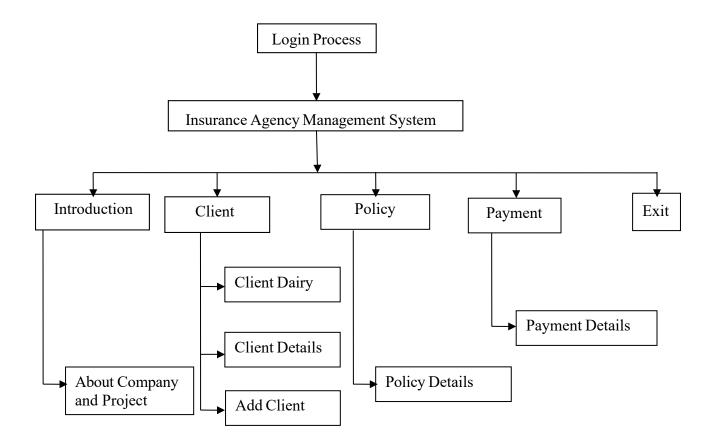
Key Board : United states 101

Monitor : 15" Color Monitor

1.2 Software Specification

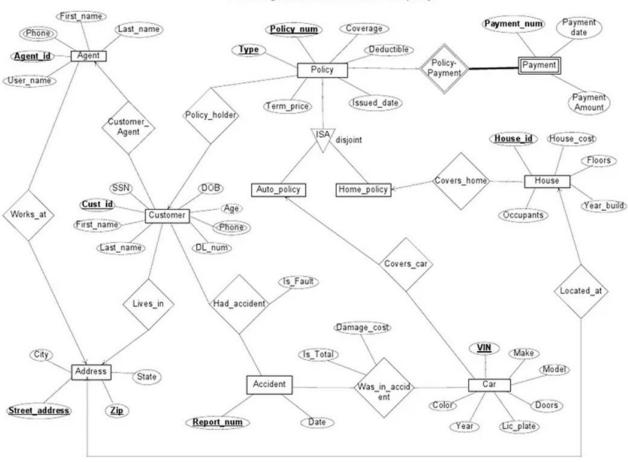
- XAMPP
- PHPMYADMIN
- MY SQL

3.System Flow Diagram



4. ER - DIAGRAM

E-R Diagram for Insurance Company



5. IMPLEMENTATION

Implementing an insurance management system using XAMPP, PHP, and MySQL is a comprehensive process that begins with setting up the development environment. First, download and install XAMPP from the Apache Friends website, ensuring that both Apache and MySQL services are running. Create a project directory in the 'htdocs' folder of your XAMPP installation, naming it appropriately, such as 'insurance management'.

Next, design the database schema to support the core functionalities of the system. Access phpMyAdmin via 'http://localhost/phpmyadmin' and create a new database named 'insurance_db'. Define tables for policyholders, policies, and claims with appropriate fields and relationships. For instance, the 'policyholders' table includes fields like 'id', 'name', 'address', 'email', and 'phone', while the 'policies' table includes fields such as 'policy_number', 'policyholder_id', 'type', 'start_date', 'end_date', and 'premium', with foreign keys to link the tables appropriately.

Develop the backend using PHP to manage database interactions. Start by creating a 'db.php' file to establish a connection to the MySQL database. This file includes connection parameters and error handling to ensure reliable database access. Implement functionality for managing policyholders by creating PHP files like 'add_policyholder.php', 'view_policyholders.php', 'edit_policyholder.php', and 'delete_policyholder.php'. These scripts handle form submissions, execute SQL queries, and provide feedback to users. For instance, 'add_policyholder.php' includes a form for inputting policyholder details and inserts the data into the database upon submission.

Create a basic frontend using HTML to provide a user interface for navigating the system. Develop an 'index.php' file that serves as the main page, including links to different functionalities such as adding and viewing policyholders. Enhance the user experience by styling the interface with CSS and making it interactive with JavaScript as needed.

After setting up the basic functionalities, test the system thoroughly by navigating to 'http://localhost/insurance_management/index.php' and verifying that all operations work correctly. Ensure that adding, viewing, editing, and deleting policyholder records function as expected. Expand the system by implementing similar management functionalities for policies and claims. Additionally, consider adding user authentication and authorization to secure the system, ensuring that only authorized personnel can access and modify sensitive information.

Continuously enhance the system by integrating advanced features such as reporting and analytics, automated premium calculations, and real-time notifications. These additions will improve the efficiency and effectiveness of the insurance management system, providing a comprehensive solution for managing policies, claims, and customer relationships. This structured approach ensures a robust, scalable, and user-friendly insurance management system built on a solid technological foundation.

SAMPLE TABLE:

S.NO	FIELD NAME	DATATYPE	FIELDWIDTH	DESCRIPTION
1	Sno	Number	8	Serial number
2	cname	Text	10	Client Name
3	cProductName	Text	15	Product Name
4	PolicyNo	Number	15	Client Policy Number
5	PAdd	Text	16	Client Permanent Address
6	Gen	Text	6	Gender
7	Occup	Text	15	Client Occupation
8	Buaddr	Text	15	Client Business Address
9	Qual	Text	15	Client Qualification
10	Nation	Text	10	Nation
11	Religion	Text	10	Religion
12	MStatus	Text	4	Client Marital Status
13	NomineeName	Text	15	Client Nominee Name
14	DOC	Date	8	Date of Commencement
15	Taddr	Text	15	Client Temporary Address
16	Phno	Number	15	Client Phone Number
17	Age	Number	2	Client Age

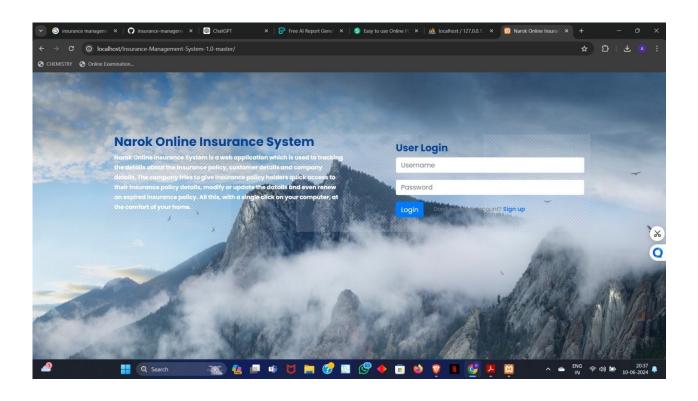
Table Name: AddClient

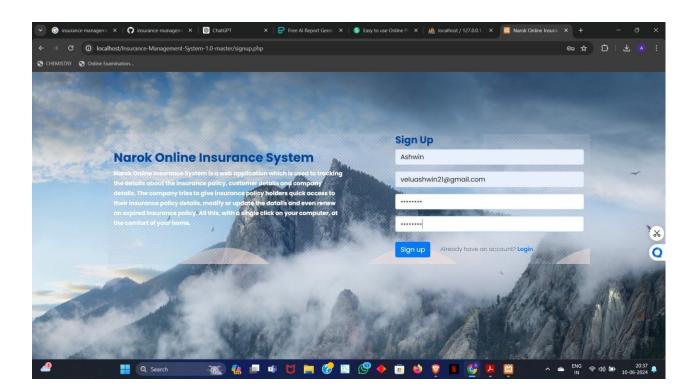
Primary Key: Sno

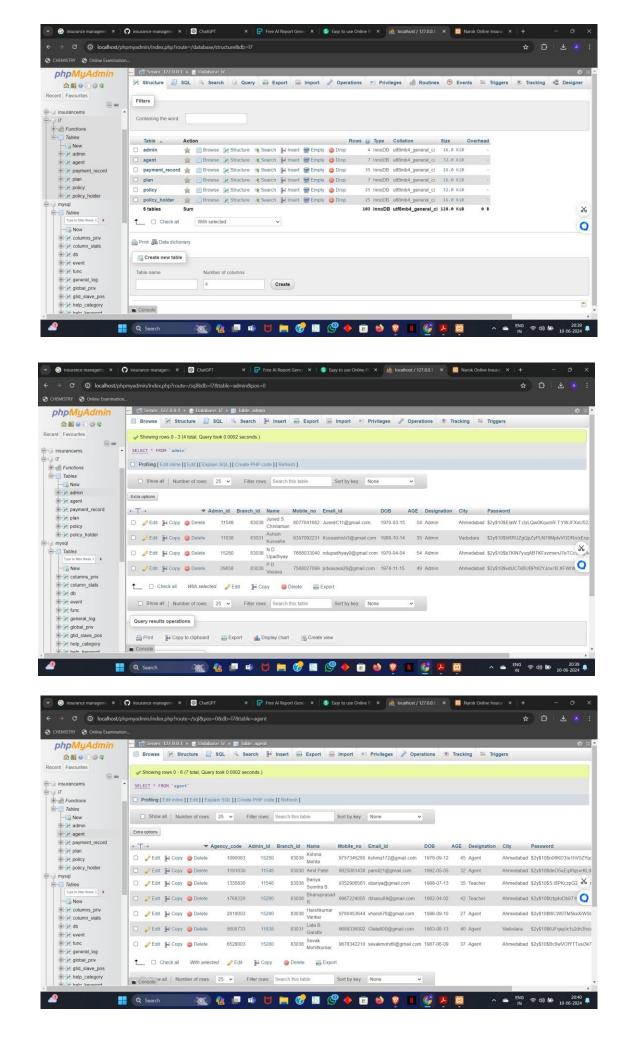
Description: Add Clients Details

S.NO	FIELD NAME	DATATYPE	FIELDWIDTH	DESCRIPTION
1	Sno	int	8	Serial number
2	cname	varchar	10	Client Name
3	cProductName	varchar	15	Product Name
4	PolicyNo	int	15	Client Policy Number
5	PAdd	varchar	16	Client Permanent Address
6	Gen	varchar	6	Gender
7	Occup	varchar	15	Client Occupation
8	Buaddr	varchar	15	Client Business Address
9	Qual	varchar	15	Client Qualification
10	Nation	varchar	10	Nation
11	Religion	varchar	10	Religion
12	MStatus	varchar	4	Client Marital Status
13	NomineeName	varchar	15	Client Nominee Name
14	DOC	Date	8	Date of Commencement
15	Taddr	varchar	15	Client Temporary Address

6. SAMPLE INPUT AND OUTPUT







7. CONCLUSION AND FUTURE ENHANCEMENT

The "INSURANCE MANAGEMENT SYSTEM" has been developed to fill all the requirements of the Insurance Agency. The system is tested with the sample data and found to be executing at its maximum performance.

The system is fully user interactive with command buttons for selecting various options to navigate other table processing and manipulate the effective handling of Client Details and Payment Details. Report from the system provides complete details about the Policy to the Insurance Agency, hence the daily report taken so that any future change in the current system will improve the efficiency of the generating process.

By using this software, they can take quick decisions and preventive actions based on the details given by the system. Due to the software, I hope quality will be improved, problems will be solved.

It is user friendly system provided with options, which can be utilized by the desired operations. The new system overcomes the problems encountered with the old system.

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