

### **Database Project 1 - Electricity Bill Management System**

The main aim of developing the Electricity Bill Management System is to keep records of the customers' bills. The admin can manage all the customers' accounts, and the registered users like employees and customers can only manage their accounts. This system helps to maintain the bills and the payments. In this project, different modules such as Login, User, Admin, Queries, Department, and Meters are designed considering the basic needs encountered at the time of generation, distribution, payment, payment, and payment of electricity bills.

### **Database Project 2 - Online Retail Application Database**

Many people take shopping as a recreational activity. Online shopping is buzzing, where people get many choices on a single platform compared to traditional shopping. Because of this reason, the preference for online shopping is large scale. The main aim of this project is to develop an easy-to-use, web-based interface for online customers that can provide them with a pleasant online shopping experience. Various modules such as Shop Products Module, Product Description Module, and Shopping Cart Module are designed for different functions.

### **Database Project 3 - Inventory Control Management**

Inventory control is a necessary process that helps businesses maintain an adequate stock of materials and products so customers' demands can be met without delay. Overstocking and understocking both these situations are harmful to business. So, it is always best to keep inventory at the optimum level is always best to earn profitability at a reasonable scale. The aim of designing an inventory control management database is to enable the businesses to keep the focus on the following:

- To stabilize production
- To take advantage of price discounts.
- Able to fulfill the demand during the replenishment period
- To prevent loss of orders (sales)
- To keep pace with changing market conditions.

### **Database Project 4 - Library Management System**

Nowadays, the concept of an online library management system is gaining popularity. It provides a user-friendly way of issuing books, and it is also possible to view different books and titles available under a category. For example, in the college library, teachers and students can be issued books. However, the number of days for returning books is different for both. Each book and even their copies of the same authors are assigned a unique ID that helps maintain various records such as to whom the book is issued, date of issue, duration, returning date, charges, the amount of fine, etc.

### **Database Project 5 - Student Database Management**

With the help of a database, a student record-keeping management system can be created. The database contains students' general information such as name, contact information, address, admission year, courses, attendance file, fee file, scholarship file, etc. This automated system is beneficial and will streamline the university administration process to a considerable degree.

### **Database Project 6 - Payroll Management System**

This SQL database is in high demand because it is used extensively in industries. This is used to manage the salary system of an organization. It performs many activities such as calculation of the monthly pay, taxes, and social security of the employees. It uses employee data like name, designation, pay scale, benefits, etc., for the computation of salaries and keeping the employees' leave and attendance records. Its software uses specific formulas to generate output from bank files and salary slips. It also creates a tax file for the tax office, and this file is stored in the database.

### **Database Project 7 - Voice-based Transport Enquiry System**

This innovative tool provides a great help in saving time while traveling. Everyone knows that long queues in front of the transport controller's office at public transport terminals are a regular thing because this is the only place commuters can get information about the different types of transport facilities available. In this case, the use of technology-enabled transport inquiry systems can help in saving time and effort. With the help of a database, an automated system for bus stands, railway stations, and airports can be developed that will take voice commands as input and answer in a voice-based format as output.

### **Database Project 8 - SMS-based Remote Server Monitoring System**

This system is very beneficial, particularly in large corporate organizations with massive data centers and multiple servers. As a large number of applications are hosted on these servers, it, therefore, becomes challenging to manage their functionalities. When a server is down or crashes, the organization gets the information from the clients. Keeping this in mind, using a web-based solution to monitor these servers' failures can help provide prompt corrective actions. The function of this application is to ping the servers periodically based on predetermined rules and then send an SMS to a predetermined list of specialists when a server is found non-operational. This message contains specific details about the server, the time of failure, etc.

### **Database Project 9 - Hospital Management System**

This kind of web-based system or software application is designed to manage the functioning of a hospital or any other medical setup effectively and smoothly. A systematic and standardized record of patients, doctors, and rooms is created with the help of this application in such a way that an administrator can have control over it. A unique ID is provided to all patients and doctors related to the database based on the ongoing treatments. All details like hospital admission, patients' discharge summary, duties of nurses and ward boys, medical stores, etc., will be maintained by separate modules.

### **Database Project 10 - Centralized College Database**

There are many academic departments in a college, such as the Department of English, Department of Mathematics, Department of History, and many more. And a variety of courses are offered by each department. And possibly an instructor can teach more than one course. For example, a physics professor can teach math also. As a math student, a student can enroll in both courses. Therefore, there can be any number of students in a course in a college, but the important thing is that there can be only one instructor for both these courses to avoid overlapping.

### **Database Project 11 - Online Blood Donation Management System**

The main aim of developing the Online Blood Donation Management System is to establish a link between the blood donors and the organization and generate e-information. With the help of this application, anyone or any organization who wants to donate blood for a good cause can register themselves. And also, anyone who requires blood can register through this site. Admin authority is authorized to add, delete, and modify if required. The intention of creating the Online Blood Donation Management System project is to develop an online Blood Donation Information. The entire project has been developed keeping the distributed client-server computing technology in mind.

### **Database Project 12 – Art Gallery Management Database Project**

Gallery keeps information about "Artist" their Name, Birthplace, Age & Style of Art about "Art Work," Artist, the year it was made, Unique title, Type of art & Prices must be stored. The piece of artwork is classified into various kind like Poetess, Work of the 19th century still life, etc. Gallery keeps information about Customers as their Unique name, Address, Total amount of Dollar, they spent on Gallery and liking of Customers.

### **Database Project 13 – Hotel Management System Database Project**

A hotel is a hive of numerous operations such as front office, booking, and reservation, banquet, finance, HR, inventory, material management, quality management, security, energy management, housekeeping, CRM and more. The hotel has some rooms, and these rooms are of different categories. By room category, each room has the different price. A hotel has some employees to manage the services provided to customers. The customer can book the room either online or by cash payment at the hotel. The customer record is stored in hotel database which contains customer identity, his address, check in time, check out time, etc. hotel provides food and beverages to their customers and generates the bill for this at the time of their check out.

### **Database Project 14 – Restaurant Management Database Project**

The restaurant maintains the catalog for the list of food and beverage items that it provides. Apart from providing food facility at their own premises, the restaurant takes orders online through their site. Orders on the phone are also entertained. To deliver the orders, we have delivery boys. Each delivery boy is assigned to the specific area code. The delivery boy cannot deliver outside the area which is not assigned to the delivery boy (for every delivery boy there can be single area assigned to that delivery boy). The customer record is maintained so that premium customer can be awarded discounts.

### **Database Project 15 - Healthcare Organization Database Project**

Any new Patient is first registered in their database before meeting the doctor. The Doctor can update the data related to the patient upon diagnosis (Including the disease diagnosed and prescription). This organization also provides rooms facility for admitting the patient who is critical. Apart from doctors, this organization has nurses and ward boys. Each nurse and ward boy is assigned to a doctor. Also, they can be assigned to patients (to take care of them). The bill is paid by the patient with cash and E-banking. The record of each payment made is also maintained by the organization. The record of each call received to provide help and support to its existing person is also maintained. The aim of designing a healthcare organization management database is to enable the businesses to keep the focus on the following:

- Emergency Care 24×7
- Support Groups
- Support and Help Through calls

### **Database Project 16 - Laundry Management System Database Design**

This Laundry Management System allows you to make life easier for the user, yet still manage the entire shop ranging from sorting or counting all the way to invoicing. It enables customer management and prepare deliveries and invoice of the customers. The admin provides the functions such as Create, Edit, View, Delete and Search Customer included in all customer information. Admin can create an invoice and can see a last all invoices for a particular customer.

### **Database Project 17 - Waste Management System**

Members will be able to register with the system and search for junkshops and recycling centers to dispose of their recyclable waste products in a more convenient manner. In addition, the suggested system will record waste collection statistics, which will be used to determine whether or not to award rewards. Communities can benefit from the system by reusing and recycling waste that poses a risk or is hazardous to their health and safety. In addition, the system will function as a platform to promote the recycling of recyclable materials such as plastic, paper, and metal, among others. It is anticipated that consumers would be able to compare the pricing of various recyclables and bargain for better offers. The system will also act as a platform for the recycling of hazardous and non-recyclable materials that are detrimental to society's overall well-being. It is still in its early stages, but the planned system will be implemented more quickly and efficiently by collaborating with other service providers such as waste management organizations, trading companies, transportation companies, banks and manufacturers.

### **Database Project 18 - Telemedicine Online Platform**

As a result of technological advancements, providing healthcare for patients has become more accessible. This system is intended to provide patients with remote medical health care via telecommunications. Providers will be able to interact with their patients and document tele-visits with patients, their conditions, medications, procedures, health history in the system. It allow allows the scheduling of future tele-visit for patients and providers. The availability and accessibility of health care are critical for providing patients with efficient and high-quality care. This system is for patients who require quick medical attention and health monitoring.

### **Database Project 19 – Automotive Repair Shop System**

This system is an on-premise automotive repair shop management platform suitable for single and multi-store vendors handling parts sales, tire sales and auto servicing. It allows users to manage employees, customers, suppliers, inventory, and sales. It provides a set of management features that allow auto repair shops to manage contacts, create work orders and other status

reporting. It also provides barcode scanning for vehicle identification numbers (VIN) and inventory. Owners of multiple shops can manage, view, and transfer inventory to other shops to maintain inventory levels between locations. Users can customize templates for email marketing campaigns and track sent emails. The vendor also provides a custom development service for clients who require custom-built software features.