

# JAVA DBMS

## PROJECT LIST



# 1. Inventory Management System:

**Description:** An application for tracking and managing inventory items, including products, stock levels, and orders. It allows users to add, modify, and remove products from the inventory.

## Key Features:

- ◆ Product management (add, edit, delete).
- ◆ Inventory tracking and stock levels.
- ◆ Order processing.

## Requirement Gathering:

- ◆ Gather product information (name, description, quantity, price).
- ◆ Understand inventory manager requirements for product management.
- ◆ Define access levels for inventory management.

# 2. Hotel Reservation System:

**Description:** An application for managing hotel room bookings, guest details, and billing. It allows hotel staff to manage room reservations and guest information.

## Key Features:

- ◆ Room reservation and management.
- ◆ Guest check-in and check-out.
- ◆ Billing and invoice generation.

## Requirement Gathering:

- ◆ Gather room details (type, availability, price) and guest information.
- ◆ Understand the needs of hotel staff for room reservation and guest management.
- ◆ Define billing and payment processes.

### 3. Airline Reservation System

**Description:** A system for managing flight bookings, passenger details, and ticketing. It allows airline staff to create, modify, and cancel flight reservations.

#### Key Features:

- ◆ Flight booking and ticketing.
- ◆ Passenger information management.
- ◆ Seat availability and booking confirmation.

#### Requirement Gathering:

- ◆ Gather flight and passenger details and understand airline staff requirements for reservation management.
- ◆ Define rules for seat booking and cancellation.

### 4. Student Attendance System

**Description:** An attendance tracking system for students, teachers, and courses. It enables teachers to mark attendance and track student participation.

#### Key Features:

- ◆ Student and teacher profiles.
- ◆ Course and class attendance tracking.
- ◆ Reporting and analytics.

#### Requirement Gathering:

- ◆ Collect student, teacher, and course data.
- ◆ Understand faculty needs for attendance tracking and reporting.
- ◆ Define analytics and reporting requirements.



## 5. Customer Relationship Management (CRM) System

**Description:** A system for managing customer information, interactions, and support requests. It facilitates sales and support teams in maintaining customer records.

### Key Features:

- ◆ Customer data management.
- ◆ Interaction history and support request tracking.
- ◆ Contact and lead management.

### Requirement Gathering:

- ◆ Gather customer information and support interactions.
- ◆ Understand sales and support team requirements for customer management.
- ◆ Define access control for different user roles.

## 6. Task Management System

**Description:** A system designed for tracking and managing tasks for users. Users can create, update, and delete tasks, set deadlines, and categorize tasks.

### Key Features:

- ◆ Task creation, modification, and deletion.
- ◆ Task categorization and priority setting.
- ◆ Deadline tracking and notifications.

### Requirement Gathering:

- ◆ Gather user needs for task management.
- ◆ Understand the importance of task categorization and deadlines.
- ◆ Define notification preferences and access control for tasks.



## 7. Expense Tracker

**Description:** An application for tracking personal or business expenses, including income and expenditure records. Users can input and manage their financial transactions.

### Key Features:

- ◆ Expense and income record management.
- ◆ Transaction categorization and analysis.
- ◆ Budget setting and tracking.

### Requirement Gathering:

- ◆ Gather user needs for expense tracking.
- ◆ Understand the importance of categorizing transactions and setting budgets.
- ◆ Define reporting and analysis requirements.

## 8. Recipe Management System

**Description:** A system for managing and sharing recipes, including ingredients and cooking instructions. Users can create, edit, and delete recipes.

### Key Features:

- ◆ Recipe creation, modification, and deletion.
- ◆ Ingredient list and preparation instructions.
- ◆ Recipe sharing and rating.

### Requirement Gathering:

- ◆ Collect user requirements for recipe creation and sharing.
- ◆ Understand the importance of ingredient details and user ratings.
- ◆ Define access control and sharing options.

## 9. Event Management System

**Description:** An application for managing events, including registrations, schedules, and ticket sales. Event organizers can create, update, and delete event information.

### Key Features:

- ◆ Event creation, scheduling, and promotion.
- ◆ Attendee registration and ticket sales.
- ◆ Ticket scanning and check-in.

### Requirement Gathering:

- ◆ Gather event organizer needs for event management.
- ◆ Understand the importance of registration and ticketing.
- ◆ Define access control and check-in procedures.

## 10. Employee Leave Management System

**Description:** A system for managing employee leave requests, approvals, and balances. It allows employees to request leave, and managers to approve or reject requests.

### Key Features:

- ◆ Leave request submission and approval.
- ◆ Leave balance tracking and reporting.
- ◆ Leave policy configuration.

### Requirement Gathering:

- ◆ Collect employee leave request data and manager approval needs.
- ◆ Understand the importance of leave balance tracking.
- ◆ Define access control and policy configuration.

## 11. Car Rental System

**Description:** An application for managing car rentals, including vehicle details, reservations, and billing. Users can reserve cars, view vehicle information, and receive invoices.

### Key Features:

- ◆ Vehicle listing and rental booking.
- ◆ Rental duration and pricing.
- ◆ Billing and payment processing.

### Requirement Gathering:

- ◆ Gather vehicle details, rental booking needs, and billing requirements.
- ◆ Understand the importance of pricing and payment processing.
- ◆ Define access control and payment methods.

## 12. Music Library Management

**Description:** A system for organizing and playing music tracks. Users can add and organize their music collection, create playlists, and play songs.

### Key Features:

- ◆ Music track cataloging and organization.
- ◆ Playlist creation and management.
- ◆ Music playback and streaming.

### Requirement Gathering:

- ◆ Gather user needs for music organization and playback.
- ◆ Understand the importance of playlist creation and management.
- ◆ Define access control and music streaming options.

## 13. Weather App with DB

**Description:** An application that fetches weather data from an API and stores it in a database for historical analysis. Users can view current weather and historical weather data.

### Key Features:

- ◆ Weather data retrieval and storage.
- ◆ Current weather display and historical data analysis.
- ◆ User preferences and location-based data.

### Requirement Gathering:

- ◆ Collect user preferences, location-based data, and historical data analysis requirements.
- ◆ Understand the importance of real-time weather updates.
- ◆ Define access control and data storage options.

## 14. Job Portal

**Description:** A system for organizing and playing music tracks. Users can add and organize their music collection, create playlists, and play songs.

### Key Features:

- ◆ Job listings and application submissions.
- ◆ Resume uploads and profile management.
- ◆ Employer job posting and application tracking.

### Requirement Gathering:

- ◆ Gather job listing, resume upload, and job application needs.
- ◆ Understand the importance of employer job posting and tracking.
- ◆ Define access control and application management options.



## 15. Real Estate Listings

**Description:** A system for managing real estate listings, property details, and client inquiries. Real estate agents can post property listings, and clients can inquire about properties.

### Key Features:

- ◆ Property listing and inquiry submissions.
- ◆ Property details and image galleries.
- ◆ Agent profiles and contact information.

### Requirement Gathering:

Collect property listing, client inquiry, and agent profile needs.

Understand the importance of property details and image galleries.

Define access control and inquiry handling procedures.

## 16. Online Survey System

**Description:** A system for creating and managing surveys, including survey questions, options, and user responses. Users can design and distribute surveys, and collect and analyze responses.

### Key Features:

- ◆ Survey creation and design.
- ◆ Survey distribution and response collection.
- ◆ Response analysis and reporting.

### Requirement Gathering:

- ◆ Gather user requirements for survey creation, distribution, and analysis.
- ◆ Understand the importance of response collection and reporting.
- ◆ Define access control for surveys and data analysis.

## 17. Blog Platform

**Description:** A blogging platform where users can create, edit, and delete their blog posts. Users can create and manage their blogs, write posts, and engage with comments.

### Key Features:

- ◆ Blog creation, post authoring, and editing.
- ◆ Commenting and user interaction.
- ◆ Blog categorization and search functionality.

### Requirement Gathering:

- ◆ Collect user requirements for blog creation, post authoring, and user interaction.
- ◆ Understand the importance of categorization and search functionality.
- ◆ Define access control for blog authors and readers.

## 18. Online Quiz System

**Description:** An online quiz system with questions, options, and user scores. Users can take quizzes, view results, and access a variety of educational quizzes.

### Key Features:

- ◆ Quiz creation and management.
- ◆ Quiz-taking functionality with timer.
- ◆ Score calculation and performance analytics.

### Requirement Gathering:

- ◆ Gather user requirements for quiz creation, taking, and performance analysis.
- ◆ Understand the importance of timer-based quizzes and analytics.
- ◆ Define access control for quiz creators and quiz-takers.

## 19. Recipe Recommendation System

**Description:** A system that recommends recipes to users based on their preferences and history. Users can input their food preferences, and the system suggests recipes.

### Key Features:

- ◆ User profile creation and preference input.
- ◆ Recipe recommendation engine.
- ◆ Recipe rating and user feedback.

### Requirement Gathering:

- ◆ Collect user preferences, recipe data, and recommendation engine requirements.
- ◆ Understand the importance of user ratings and feedback.
- ◆ Define access control and recommendation criteria.

## 20. Issue Tracking System

**Description:** A system for tracking and managing issues or bugs in software development projects. Developers can report issues, track their status, and collaborate on solutions.

### Key Features:

- ◆ Issue reporting and categorization.
- ◆ Issue assignment and status tracking.
- ◆ Collaboration tools for developers.

### Requirement Gathering:

- ◆ Gather issue reporting needs, categorization requirements, and status tracking.
- ◆ Understand the importance of collaboration features for developers.
- ◆ Define access control and communication channels.

## 21. Pet Adoption System

**Description:** A platform for managing pet adoption listings, pet details, and adoption inquiries. Animal shelters can post pet listings, and potential adopters can inquire about pets.

### Key Features:

- ◆ Pet listing and inquiry submission.
- ◆ Pet details, images, and medical history.
- ◆ Shelter profiles and contact information.

### Requirement Gathering:

- ◆ Collect user preferences, recipe data, and recommendation engine requirements.
- ◆ Understand the importance of user ratings and feedback.
- ◆ Define access control and recommendation criteria.

## 22. E-Learning Management System

**Description:** A system for delivering and managing online courses, including user progress and assessments. Instructors can create courses, students can enroll, and track their progress.

### Key Features:

- ◆ Course creation and enrollment.
- ◆ Content delivery and assessment.
- ◆ Progress tracking and analytics.

### Requirement Gathering:

- ◆ Gather course creation, enrollment, and progress tracking requirements.
- ◆ Understand the importance of content delivery and assessment.
- ◆ Define access control for instructors and students.



## 23. Stock Portfolio Tracker

**Description:** An application that allows users to track and manage their stock portfolios. Users can input their stock holdings and view portfolio performance.

### Key Features:

- ◆ Portfolio management and tracking.
- ◆ Stock addition and removal.
- ◆ Performance analysis and reporting.

### Requirement Gathering:

- ◆ Collect portfolio tracking, stock addition, and performance analysis needs.
- ◆ Understand the importance of real-time stock data and reporting.
- ◆ Define access control for portfolio management.

## 24. Chat Application with Message Storage

**Description:** A chat application that stores chat messages in a database for historical reference. Users can send messages to others and retrieve past conversations.

### Key Features:

- ◆ Real-time messaging and chat history retrieval.
- ◆ User profiles and message encryption.
- ◆ Group chat functionality.

### Requirement Gathering:

- ◆ Gather user requirements for real-time messaging, message retrieval, and security.
- ◆ Understand the importance of group chat functionality and user profiles.
- ◆ Define access control and message storage options.

## 25. Hospital Appointment Scheduler

**Description:** A system for patients to schedule appointments with doctors and view their medical history. Patients can request appointments, and doctors can manage their schedules.

### Key Features:

- ◆ Appointment scheduling and confirmation.
- ◆ Medical record access and management.
- ◆ Notification and reminders.

### Requirement Gathering:

- ◆ Collect appointment scheduling needs, medical record access requirements, and notification preferences.
- ◆ Understand the importance of schedule management for doctors and patients.
- ◆ Define access control for medical records and appointment management.