



CONSTRUCTION TASK MANAGEMENT SYSTEM

**Presented By
Mohana Sri**



Table Of Content

- Introduction
- Problem Statement
- Proposed Solution
- Database Design
- Table Relationship
- Key Functionalities
- Use Case Scenarios
- Future Enhancements
- Conclusion

Introduction

Purpose :

A robust system designed to streamline task and milestone management for construction projects, ensuring improved efficiency and collaboration.

Objective:

To simplify tracking, updating, and managing project-related tasks, categories, milestones, and client interactions in real-time.

Key Features:

- Comprehensive task management.
- Milestone tracking for project progress.
- User-specific task assignments.
- Support for dynamic reporting and analytics.

Problem Statement

Lack of Centralized Task Management:

Managing multiple tasks across various projects can lead to miscommunication and delays.

Inefficient Progress Tracking:

Difficulty in monitoring milestones and project statuses in real-time.

Resource Allocation Issues:

Assigning tasks and tracking individual contributions manually is time-consuming.



Proposed Solution

Centralized Task Management System:

A unified platform to manage tasks, milestones, and project progress.

Real-time Progress Tracking:

Continuous monitoring of tasks and milestones to ensure timely delivery.

Resource Allocation and Task Assignment:

Assign tasks based on priorities, deadlines, and team availability.

Enhanced Communication and Collaboration:

A system that fosters better communication between clients, managers and users.

Automated Reporting and Updates:

Generate reports and updates for stakeholders automatically, reducing manual efforts.



Database Design

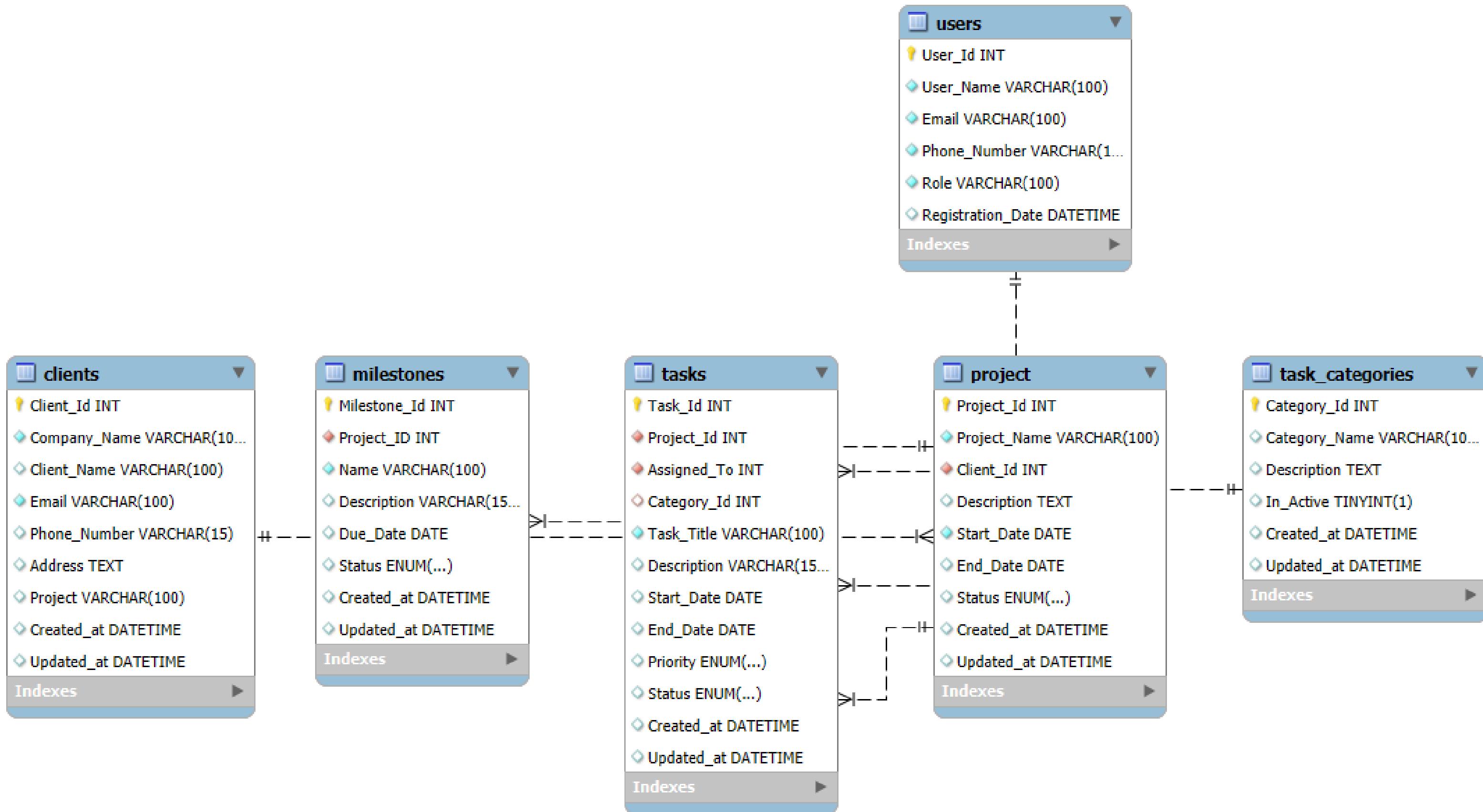


Table Relationship

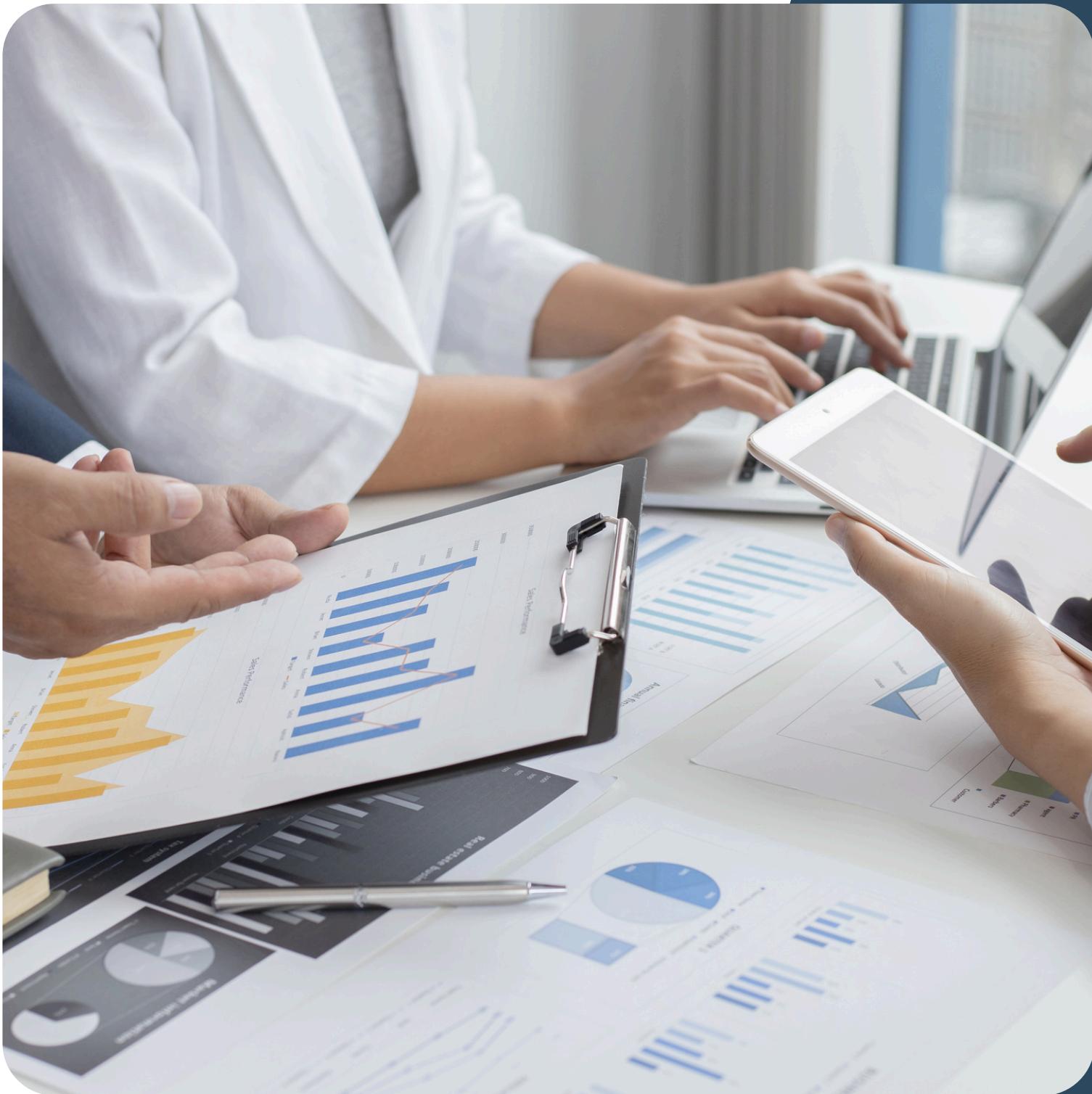
Relationship	Description
Clients ↔ Projects	A client can have multiple projects.
Projects ↔ Tasks	Each project has multiple tasks.
Users ↔ Tasks	Users are assigned to tasks.
Task_Categories ↔ Tasks	Tasks are categorized into different categories.
Projects ↔ Milestones	Projects have multiple milestones to track key progress points.

Key Functionalities

- Client Management:
Manage client information, including contact details and associated projects.
- Project Tracking:
Add, update, and monitor the status and progress of projects.
- Task Management:
Assign tasks to users, set priorities, and track task statuses.
- User Roles and Assignments:
Manage user roles and assign tasks based on responsibilities.
- Milestone Tracking:
Define and monitor key project milestones.
- Category-Based Organization:
Organize tasks into categories for better clarity and management.
- Comprehensive Reports:
Generate reports on project progress, task statuses, and user performance.
- Status Monitoring:
Track the status of tasks and milestones (e.g., Planned, In Progress, Delayed, Completed).

Use Case Scenarios

- A construction company uses the system to manage multiple ongoing projects effectively.
- Project managers assign tasks to team members, track milestones, and monitor deadlines.
- Users update task statuses and share progress updates in real-time.
- Clients access project summaries and milestone updates for better transparency.



Future Enhancements

- Introduce mobile app support for on-the-go task management.
- Add advanced analytics for project insights and delay predictions.
- Implement real-time notifications for updates and deadlines.
- Enhance resource tracking and integrate with third-party tools like Slack.



Conclusion

- The Task Management System efficiently handles construction project workflows.
- Key features include task tracking, milestone management, and client coordination.
- It ensures scalability and adaptability for future enhancements.
- A significant step towards streamlining construction project management processes.



THANK YOU