

J & S Employee Management System

❖ Introduction:

The Employee Management System is a web-based application that helps organizations manage employee details and organizational information efficiently through an admin-controlled interface. The system simplifies employee data management, improves transparency, and enhances organizational productivity.

❖ Objectives:

- To develop a system that manages employee data effectively.
- To enable secure and fast access for admin and users.
- To reduce manual work and maintain accuracy.
- To store and retrieve employee information efficiently.
- To implement CRUD (Create, Read, Update, Delete) operations seamlessly.

❖ Related Works:

- 1. Zoho People:** Comprehensive HR management software offering automation and analytics.
- 2. BambooHR:** A cloud-based HR platform that simplifies employee data tracking.
- 3. OrangeHRM:** An open-source HR management system focusing on core HR functions.

While these systems provide advanced HR solutions, they often come with high subscription costs or unnecessary complexity. The proposed EMS focuses on affordability, simplicity, and adaptability for small and medium organizations.

❖ Methodology:

The project was developed using the **Incremental Model**, allowing step-by-step design, testing, and integration.

- **Phase 1:** Requirements gathering and system design
- **Phase 2:** Implementation of database and backend
- **Phase 3:** Development of the frontend interface
- **Phase 4:** Testing and deployment

Technologies Used:

- Frontend: React.js
- Backend: Node.js
- Database: MySQL

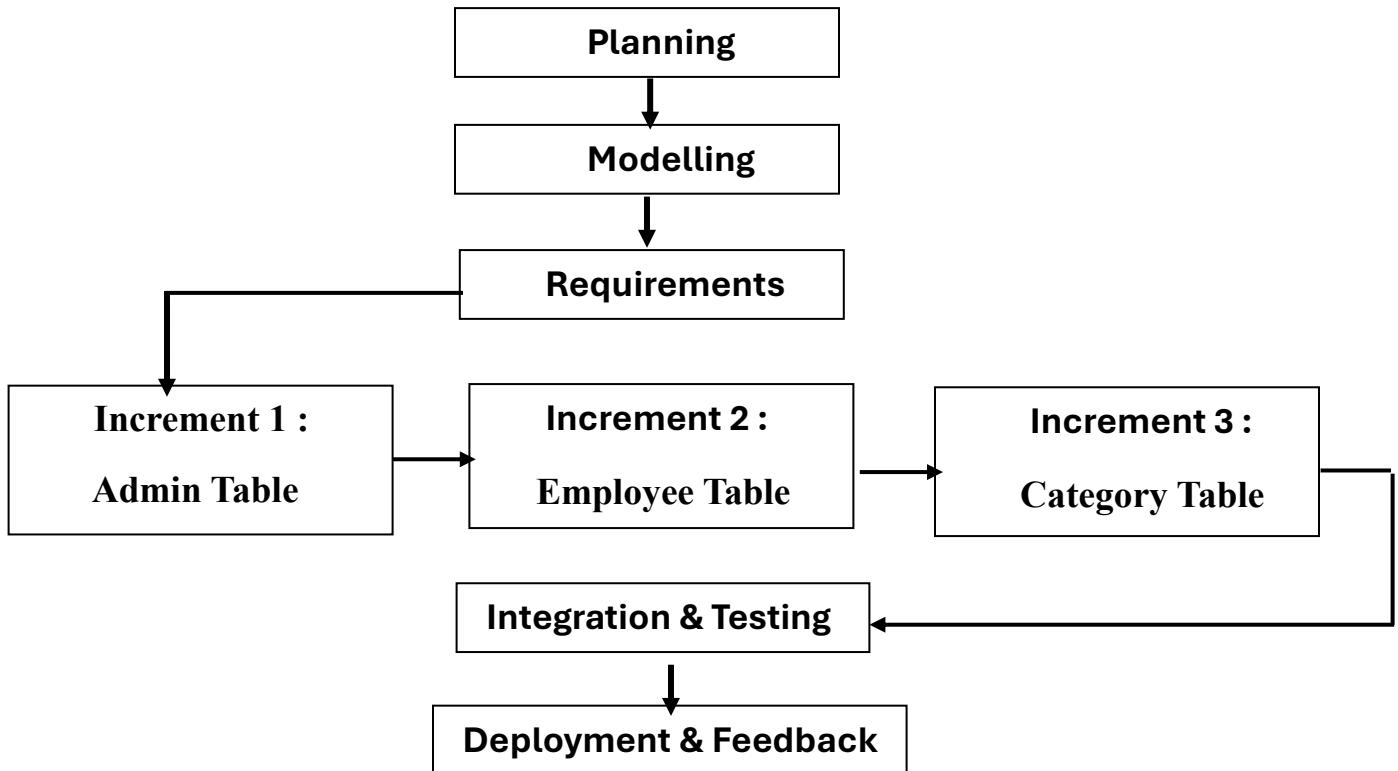


Figure : Incremental Model Diagram suitable for Employee Management App

❖ Implementation:

The system was implemented and tested successfully for all modules — Admin, Employee, Category, and Organization. CRUD operations were verified and data consistency maintained using MySQL.

❖ Project Screenshots:

The image displays three screenshots of the J & S Employee Management System interface.

Top Screenshot: A blurred background image of people working at desks. In the center, there is a modal window titled "Login As" with two buttons: "Employee" (purple) and "Admin" (green).

Middle Screenshot: The "J & S Employee Management System" dashboard. On the left is a sidebar with "Admin Panel" and links for "Dashboard", "Core", "Manage Employees", "Category", "Organization", and "Logout". The main area shows summary statistics: "Admins" (Total: 2), "Employees" (Total: 2), and "Total Salary" (\$100000). Below this is a table titled "List of Admins" with two rows:

Email	Action
joyanto@gmail.com	[Edit] [Delete]
shinjon@gmail.com	[Edit] [Delete]

Bottom Screenshot: The "Core Management" page. It has a similar sidebar and title bar. The main content is a table titled "Core Management" with two rows:

Name	Image	Email	Address	Action
Shinjon Chowdhury		shinjon@gmail.com	Koila Bazar , Khulna	[Edit] [Delete]
Joyanto Debnath		joyanto@gmail.com	Bogra , Bagerhat	[Edit] [Delete]

❖ Result and Discussion:

The EMS performed well during testing. It was able to handle data efficiently, provided secure access, and ensured accurate record management. Users found it easy to operate and navigate.

❖ Conclusion:

The Employee Management System successfully achieves its goal of simplifying employee management. It ensures data accuracy, reduces manual errors, and enhances organizational workflow efficiency.