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STAFFHUB

Github link : https://github.com/zyntratech-upendra/staff-management

Deployment link : https://staff-management-red.vercel.app

PROJECT DESCRIPTION

The Staff Management System is a web-based application designed for staffing agencies and manpower service providers to manage employees centrally. In this system, the Admin acts as the primary authority, responsible for registering employees, assigning them to multiple client companies, tracking their attendance, and handling payroll exclusively. Employees work at assigned companies, but all salary calculations, attendance validations, and payroll processing are performed by the Admin through a centralized dashboard. By automating these processes, the system ensures accurate payroll, reduces human errors, and improves operational efficiency while providing a streamlined platform for managing multiple companies and employees simultaneously.

KEY FEATURES

The main goals of this system are:

➢ Multi-role login system (Admin, Company, Supervisor, Employee)

➢ Admin-controlled employee and company creation

➢ Employee promotion to Supervisor

➢ Supervisor-managed attendance system

➢ Automated salary calculation

➢ Company revenue and payroll visibility

➢ Secure role-based access

➢ Responsive and modern UI

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USER LOGIN TYPES & ACCESS

Role	Access & Responsibilities
Admin	Creates company & employee logins, views all data
Company	Manages employees, assigns work, promotes supervisors
Supervisor	Manages employee attendance
Employee	Views attendance, salary, and assigned work

ARCHITECTURAL FLOW

The system workflow begins when a user submits an employment request through the website. The administrator reviews and verifies the request, then creates the required company and employee login credentials. Employees are assigned to their respective companies, where company administrators allocate work tasks and have the authority to promote eligible employees to supervisor roles. Supervisors are responsible for managing and maintaining employee attendance records. Based on this attendance data, the system automatically calculates employee salaries. Employees can view their attendance and salary details, companies can monitor payroll and revenue information, and the administrator retains complete visibility and control over all system operations.

The Staff Management System is developed using a modern web technology stack that ensures scalability, security, and performance. Each module and library is selected based on the specific functionality it provides within the system.

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Technology Stack

❖ **Frontend:** React (Vite)

✓ **React.js**
Used to build a dynamic and responsive user interface. React enables component-based architecture, improving reusability and maintainability of UI elements such as dashboards, forms, and tables.

✓ **Bootstrap**
Used for responsive layout design and styling. Bootstrap ensures consistent UI across devices including desktops, tablets, and mobiles.

✓ **Axios**
Used for handling HTTP requests between the frontend and backend APIs. It enables secure data fetching for login, attendance records, salary details, and reports.

❖ **Backend:** Node.js

✓ **Node.js**
Used to handle server-side logic, API creation, authentication, and data processing.

✓ **Express.js**
Provides a lightweight framework for creating RESTful APIs and managing routes for admin, company, supervisor, and employee operations.

✓ **JWT(JSON Web Token)**
Used for secure user authentication and authorization. JWT ensures that only authorized users can access role-based dashboards such as Admin, Company, Supervisor, or Employee.

✓ **Bcrypt**
Used to encrypt user passwords before storing them in the database, enhancing data security.

✓ **Attendance Management Module**
Handles daily employee attendance, leave tracking, and work status updates.

✓ **Salary Calculation Module**
Automatically calculates salaries based on attendance data, predefined salary structures, and company rules.
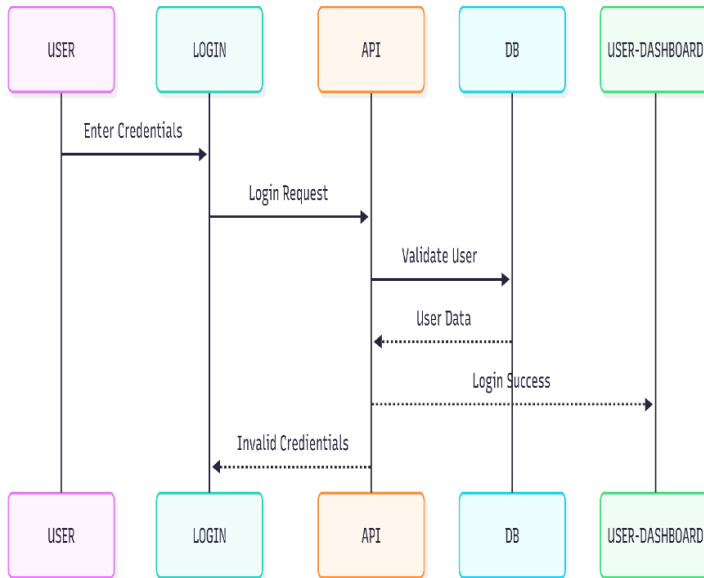
❖ **Database:** MongoDB

✓ The use of MongoDB enhances system performance, flexibility, and scalability by allowing fast data access and easy handling of large volumes of employee and payroll data across multiple companies.
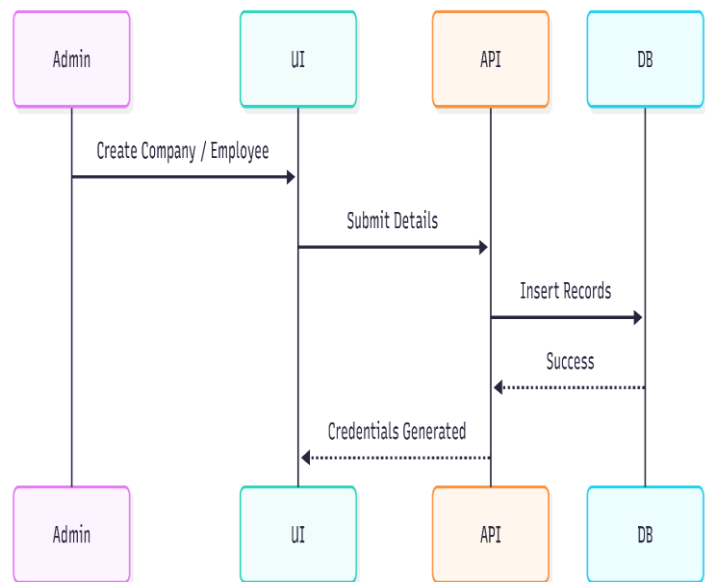
❖ **Deployment:** Vercel, Render

✓ **Vercel**: Used for hosting the frontend application.

✓ **Render**: Used for deploying backend APIs and database connections.

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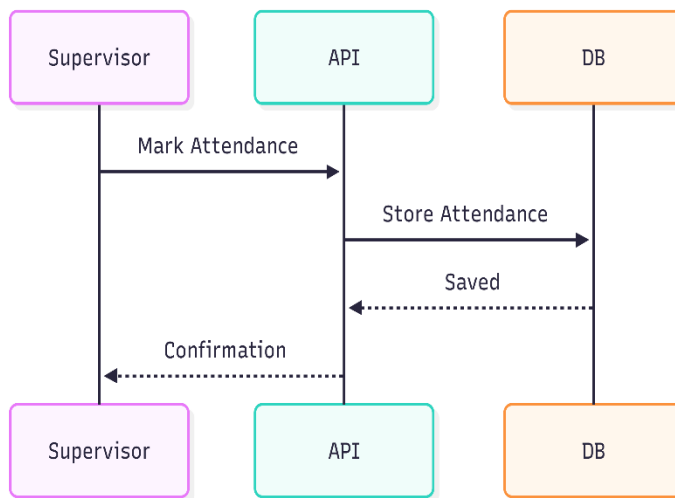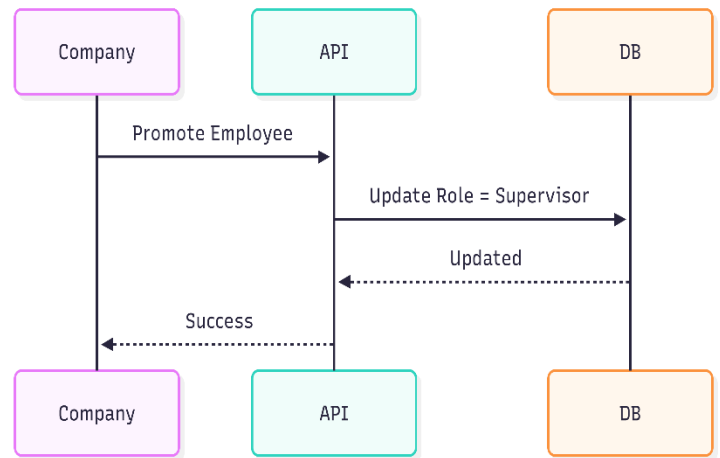
SEQUENCE DIAGRAMS

The authentication process for all system users, including Admin, Company, Supervisor, and Employee. The process begins when the user enters login credentials through the login interface. The login module forwards the credentials to the backend API as a login request. The API validates the user credentials by communicating with the database. If the credentials are valid, the database returns the user data, and the API responds with a login success message, redirecting the user to the respective dashboard. If the credentials are invalid, an error response is sent back to the login module, and access is denied.

The workflow where the admin creates company and employee accounts. The process starts when the admin enters company or employee details through the user interface. The UI submits these details to the backend API. The API processes the request and inserts the new records into the database. Once the data is successfully stored, the database confirms the operation, and the API generates login credentials. These credentials are then returned to the admin through the UI, completing the account creation process.

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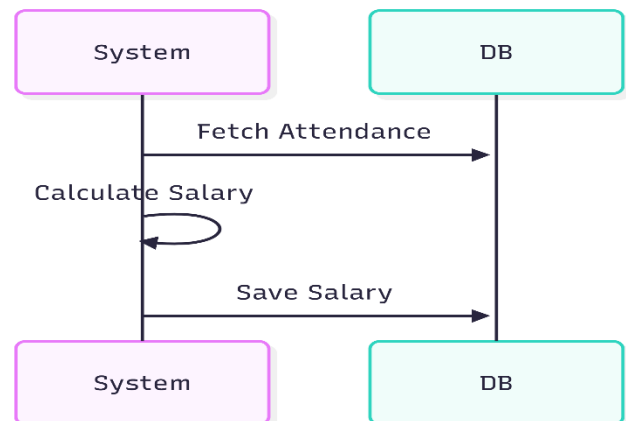upendra.zyntratech@gmail.com

The promotion process handled by the company. The company initiates the action by requesting the promotion of an employee to the supervisor role. This request is sent to the backend API, which updates the employee's role in the database. After the role update is successfully completed, the database sends a confirmation to the API. The API then returns a success response to the company, indicating that the employee has been successfully promoted to supervisor.
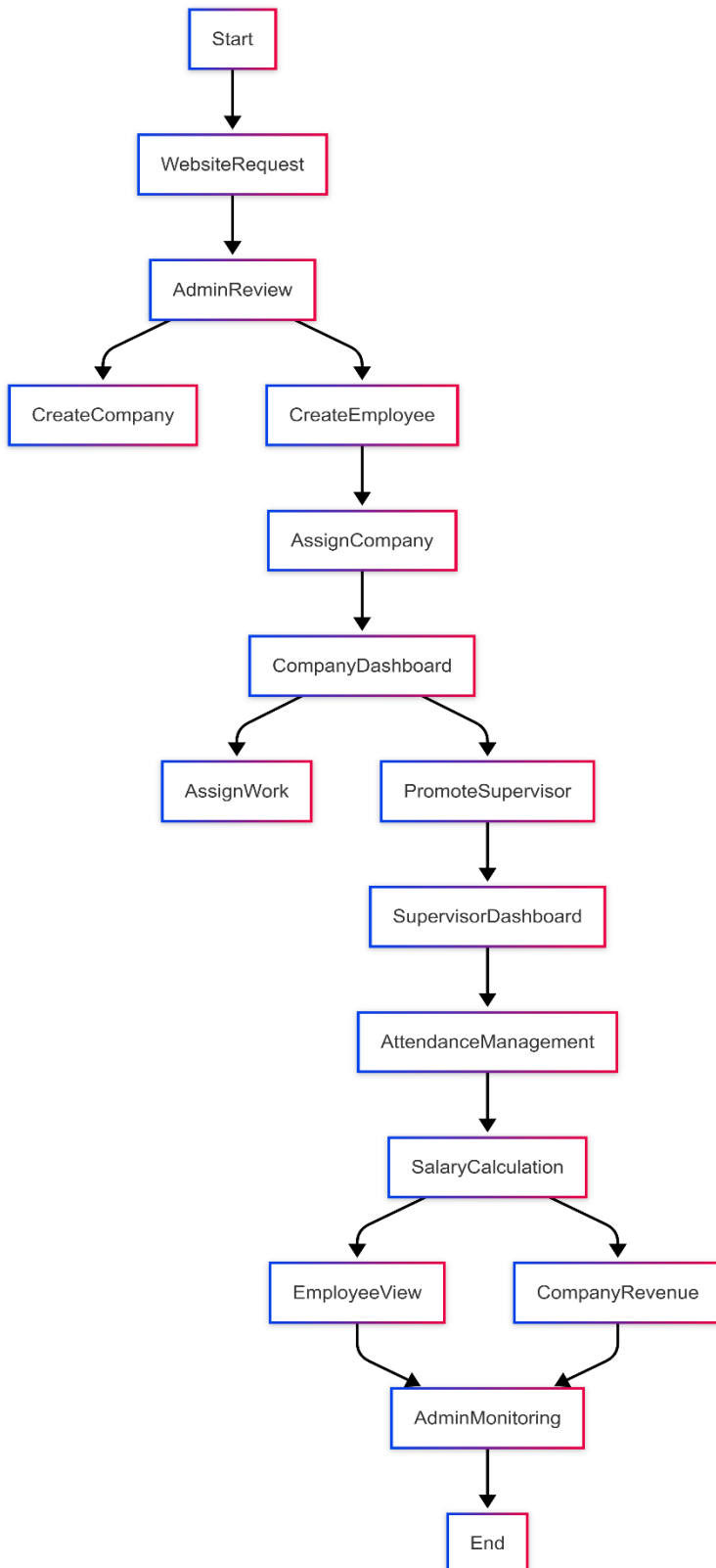
.

This sequence diagram depicts how attendance is managed by the supervisor. The supervisor marks employee attendance using the system interface. The attendance data is sent to the backend API, which processes and stores the attendance information in the database. After the attendance record is successfully saved, the database sends a confirmation back to the API. The API then notifies the supervisor that the attendance has been recorded successfully.

This automated salary calculation process performed by the system. The system fetches attendance records from the database for a specific employee or time period. Based on the retrieved attendance data, the system calculates the salary using predefined salary rules and attendance criteria. Once the calculation is completed, the salary details are saved back into the database. This stored salary information is later made available to employees, companies, and the admin for review and monitoring.

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FULL SYSTEM FLOWCHART

The flowchart represents the complete operational workflow of the **Staff Hub**, starting from user request submission to final administrative monitoring.

The process begins at the **Start** node, where a user submits an **employment request through the website**. This request is forwarded to the **Admin Review** stage, where the administrator verifies and approves the request.

Once approved, the **Admin creates the Employee login and assign to Company** . The newly created employee is then **assigned to a specific company**, after which the employee becomes visible in the **Company Dashboard**.

From the Company Dashboard, the company can **assign work roles** to employees. If required, the company may **promote an employee to the role of Supervisor** based on performance or operational needs.

After promotion, the workflow moves to the **Supervisor Dashboard**, where the supervisor is responsible for **managing attendance records** of all assigned employees. Attendance data such as working days and hours is recorded accurately.

The recorded attendance is then used for **Salary Calculation**, where the system automatically computes employee salaries based on attendance data and predefined salary rules.
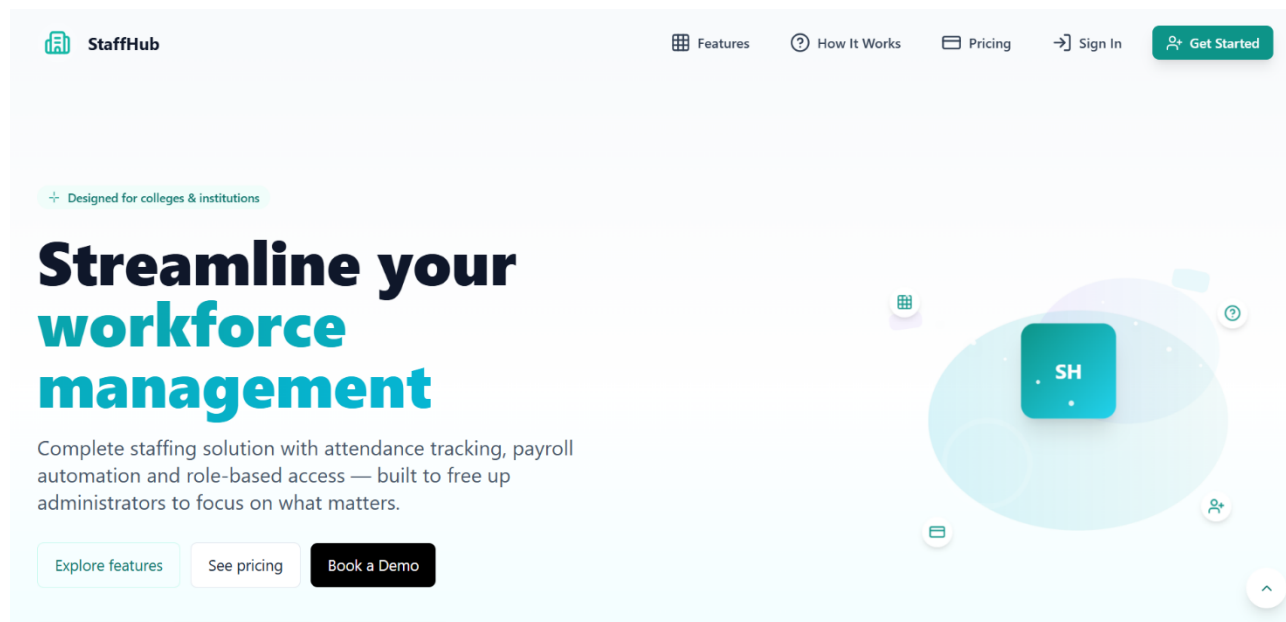
Once salary calculation is completed:

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❖ Employees can view their **attendance reports and salary details** through the **Employee View**.

❖ Companies can monitor **revenue, payroll expenses, and salary summaries** through the **Company Revenue** view.

Finally, all system data — including employees, attendance, salaries, and company revenue — is consolidated and made available to the **Admin Monitoring** module, where the admin has **complete visibility and control** over the entire system.

SCREENSHOT SECTIONS

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Powerful features for every role

Role-based access control ensures every user sees the right tools and information to manage work effectively.

Main Admin
- Register and manage companies
- Enable/disable company accounts
- View platform statistics
- Manage admin profile
- Monitor system activity

Company Account
- Register employees and supervisors
- Define salary structures
- View attendance records
- Generate salary and payslips
- Manage company profile

Supervisor
- View assigned employees
- Mark daily attendance
- Update attendance records
- View attendance history
- Generate reports

Employee
- View personal attendance
- View salary and payslips
- View documents
- Update profile information
- Download reports

Everything you need in one place

Comprehensive tools to manage your entire workforce — from attendance to payroll and analytics.

Attendance Tracking
Real-time attendance monitoring with detailed history and exportable reporting.

Salary Management
Automated salary calculations, payslip generation and export-ready files.

Welcome Back

Access your **StaffHub** dashboard

Email address

Password

Forgot password?

Login

Don't have an account? **Create one**

Secure & Encrypted Login

StaffHub
Workforce made simple

Trusted attendance, payroll and analytics tools for institutions and small businesses. Built to scale and easy to manage.

Your email address | **Subscribe**

hello@staffhub.example   +91 12 3456 7890

Product
- Features
- How it works
- Pricing
- Integrations

Company
- About us
- Careers
- Blog
- Contact

Contact & Office
- SSR Degree College, Jaganadha Puram, Machilipatnam, Andhra Pradesh 521001
- +91 12 3456 7890
- hello@staffhub.example
- Mon–Fri 9:00 — 18:00 IST

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Staff Management — Employees

Statistics | Companies | **Employees**
Supervisors | Assignments
Employee Summary | Attendance By Date

Employees

+ Register Employee

Phone	Aadhaar	Status
9949570294	-	Active
466161515	-	Active
1234567895	-	Active
	-	Active
06303467217	704424684651531	Active
1312423	142	Active

Staff Management — Assignments

Statistics | Companies | Employees
Supervisors | **Assignments**
Employee Summary | Attendance By Date

Assignments

+ Create Assignment   **Generate Salary**

Employee	Company	Start	End
rama raju	zyntra	26/12/2025	27/12/202
vamsi	abhyankar	26/12/2025	27/12/202
Ravi	Infosys	26/12/2025	27/12/202
ram	Infosys	25/12/2025	26/12/202
Varam	Infosys	26/12/2025	27/12/202
Rohan	Infosys	26/12/2025	28/12/202

Staff Management — Attendance By Date

Statistics | Companies | Employees
Supervisors | Assignments
Employee Summary | **Attendance By Date**

Attendance By Date

31-12-2025   **Load**

Name	Email	Phone

No attendance found for this date.

SH

Staff Management
Simple • Fast • Unified

Dashboard | Staff | Attendance | Payroll | SA System Administr... admin

Statistics | **Companies** | Employees | Supervisors | Assignments | Employee Summary | Attendance By Date

Companies

+ Register Company

Company	Email	Phone	Code	Status	
zyntra	zyntra@gmail.com	4321876598	COMPMJMXJCRO	Active	Disable
abhyankar	abyan@gmail.com	9878654512	COMPMJ15SOFO	Active	Disable
TCS	tcs@gmail.com	51463365153	COMPMJ12KUJ8	Active	Disable
Infosys	infosys@gmail.com	43636235133	COMPMIUCSIY9	Active	Disable

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Staff Management
Simple • Fast • Unified

Dashboard   Staff   Attendance   Payroll   T   TCS company

StaffHub

- Employees
- Supervisors
- Attendance

EMPLOYEES

Employees

Name	Email	Phone	Daily Salary	Start Date	End Date

Staff Management
Simple • Fast • Unified

Dashboard   Staff   Attendance   Payroll   V   Varam employee

Employee Dashboard

Welcome back, Varam! Manage your attendance, salary & profile

My Attendance   My Payslips   My Profile

PRESENT	ABSENT	HALF-DAY	LEAVE
1	0	0	0

Attendance Records   December   2025

DATE	STATUS	CHECK IN	CHECK OUT	REMARKS

Staff Management
Simple • Fast • Unified

Dashboard   Staff   Attendance   Payroll   V   Varam employee

Employee Dashboard

Welcome back, Varam! Manage your attendance, salary & profile

My Attendance   My Payslips   **My Profile**

Personal Information

Name	Varam
Email	varma@gmail.com
Phone	466161515

Bank Details

Account Number	Not set
IFSC Code	Not set
Bank Name	Not set

Salary Structure

Basic Salary	₹25000
HRA	₹0
Allowances	₹200
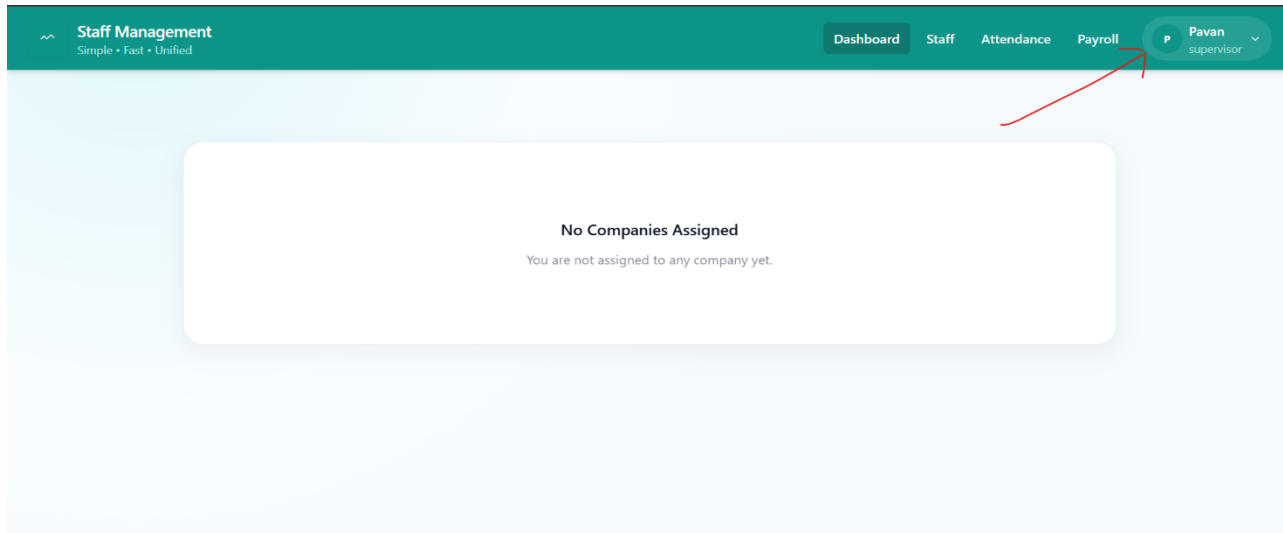
DEPLOYMENT REQUIREMENTS

The Staff Management System is deployed using a cloud-based web architecture that requires a stable server and internet connectivity. The frontend of the application is developed using React with Vite and is hosted on a cloud platform such as Vercel to ensure fast and reliable access. The backend services are deployed on a server environment Node.js with RESTful APIs to handle business logic, authentication, attendance processing, and salary calculations. A MongoDB database server is used to store employee, company, attendance, and salary data securely. The system requires Node.js (version 16 or above) and a modern web browser for access. Proper environment configuration, secure API endpoints, and HTTPS communication are required to ensure data security and smooth system operation. This deployment setup supports scalability, role-based access, and efficient system maintenance.

CONCLUSION

The Staff Management System successfully provides a complete and efficient solution for managing employees, attendance, and payroll in an organized and automated manner. By introducing role-based access for Admin, Company, Supervisor, and Employee, the system ensures secure data handling and clear responsibility distribution. Automation of attendance tracking and salary calculation reduces manual errors and improves accuracy and transparency. The centralized monitoring feature allows the admin to oversee all operations, while companies and employees can easily access relevant information. Overall, this project demonstrates how modern web technologies can be used to simplify human resource management and improve organizational productivity.