## **Project Overview**

A **centralized enterprise-grade software** designed to streamline workflow across departments through:

- ☐ Secure Attendance Logging (Geo-tag + Mobile Punch)
- ☐ Task Allocation & Status Tracking
- $\square$  Employee Management & Permissions
- ☐ Salary Visibility & HR Controls

#### Who It's For:

Role	Capabilities	
Admin	Manage users, set dept permissions, control MIS, add/delete employees, assign tasks	
Employee	View/update tasks, track attendance, receive notifications, Assign Task to each other	
HR (sub-role)	Configure salary structure, override attendance manually, manage records	
Accounts	(Feature in development) — salary calculations, monthly reconciliation, reports	

### ☐ Tech Stack

Layer

**Technology** 

Frontend React, Vite, Chakra UI, GSAP, Axios

Backend Node.js, Express.js, MongoDB, Mongoose

Authentication JWT Token-based auth middleware

Styling/UI Chakra UI with responsive design

**Graphs/Charts** Chart.js / Recharts (planned)

Geo Features Mobile location tracking via GPS metadata

#### □ Folder Structure

```
project/
   – backend/
     --- config/
                     # DB connection & constants
     — controllers/
                      # Business logic
       - models/
                      # Mongoose schemas
       - routes/
                     # API definitions
     — middleware/
                        # Auth, logging, validation
   L— server.js
                     # Main server entry point
  - frontend/
  L—src/
        components/ # Reusable UI elements
         - pages/
                     # View-level components
        - utils/
                   # API services/helpers
     main.jsx / App.jsx
```

```
□ Installation Instructions
# Clone the repo
git clone https://github.com/your-org/office-suite
cd office-suite
# Backend Setup
cd backend
npm install
touch .env
              # Add environment variables
npm run dev
               # Dev mode with nodemon
# Frontend Setup
cd ../frontend
npm install
npm run dev
               # Runs on localhost:5173 (default Vite port)
□ .env Configuration
     ☐ Required in /backend/.env:
PORT=5000
MONGO_URI=mongodb+srv://<username>:<password>@cluster.mongodb.net/dbname?retryW
rites=true&w=majority
JWT_SECRET=YourStrongSecretKey
NODE_ENV=development
CORS_ORIGIN=http://localhost:5173
You may also optionally include:
GOOGLE_MAPS_API_KEY=xxx
                                  # For future geo-tag mapping
```

# For image storage

AWS\_S3\_BUCKET=xxx

# 

# **Authentication Routes**

Method	Endpoint	Purpose
POST	/api/auth/login	Admin or Employee login
POST	/api/auth/register	Account creation

### $\square$ Admin Operations

Method	Endpoint	Purpose
GET	/api/admin/employees	View all employees
POST	/api/admin/create-employee	Add employee
DELETE	/api/admin/delete/:id	Delete employee
GET	/api/admin/AttenDash	Get attendance log
GET	/api/admin/allTasks	All task records
GET	/api/admin/checkAllDB	Master DB inspection

#### □ Employee Functionality

Method	Endpoint	Purpose
GET	/api/employee/profile	Personal profile
POST	/api/employee/submit-task	Task submission
PUT	/api/employee/update-task	Modify task (if permitted)

## □ Frontend Pages Summary

#### □ Admin Dashboard

- Home Charts: Attendance, Tasks, Department Flow
- Create/Delete Employee ID-based actions
- Task Management View & track submissions
- Permissions Panel XLS upload/download access
- Attendance Control Holiday setup, weekend toggles
- **DB Browser** All collections in one screen

#### ☐ Employee Dashboard

- Task Panel Submit & view daily tasks
- Attendance Log Punch history, remarks, geo data
- XLS Panel Import/export via dynamic permission



- JWT-Based Auth Token verified across endpoints
- Role-Guarded Routes Admin, Employee, SuperAdmin middleware
- Bcrypt Hashed credentials stored securely
- Rate Limiting (planned) Prevent brute force login
- XSS & Input Validation Express + middleware checks

# ☐ Mongoose Data Models

```
    □ Employee.js
    {
        name, email, empld, role, subRole,
        password, allowXLSUpload, allowXLSDownload,
        createdAt

    ├ Task.js
    {
        name, empld, date, time,
        morningTask, eveningTask,
        status, assignedBy

    ├ Attendance.js
    {
        name, date, punchIn, punchOut,
        location, remark, image
```

### □ Future Enhancements

- □ Email alerts for missed entries

□ Excel export for each dashboard view
Calendar-based attendance mapping
■ Push notification integration for React Native
□ License & Credits
Built by SaiSkill & Team using:
Chakra UI [MIT]
GSAP [Open Source Animation Toolkit]
MongoDB Atlas (Cloud-Hosted DB)
Let me know if you'd like me to format this as a <b>Copilot Page</b> for easy editing and exporting —
or if you want a styled HTML version ready for PDF rendering. You're turning this into
enterprise-grade, and I'm all in □□.