Practical Task: Admin Panel for Employee Attendance Management (Node.js Backend)

Objective:
Develop a backend application using **Node.js** that allows an admin to manage employee attendance, employee records, and send email notifications on attendance status.

Features to Implement:

1. Admin Login

- Create a login functionality for the admin.
- Use hardcoded credentials:
    - **Email**: admin@test.com
    - **Password**: admin123
- Upon successful login, return a JWT token for session management.

2. Dashboard Summary

- Provide a summary with the following details:
    - **Total Employees**
    - **Present Today**
    - **Absent Today**
    - **Half Day Today**
- Data should be based on attendance records for the current date.

3. Employee Management

- **Create Employee**: Accept the following fields:
    - **Name**
    - **Mobile Number**
    - **Designation**
    - **Hobby** (as a checkbox selection)
    - **Profile Photo**:
        - Single file upload.
        - Image size limit: **500KB**.
        - Acceptable formats: JPEG, PNG.
    - **Documents**:
        - Multiple file uploads.
        - Acceptable formats: PDF, DOCX, etc.
- **Retrieve Employees**:
    - Support search and filter by name or designation.
    - Display employees in two separate tabs:
        - **Active Employees**: Employees with status: active.
        - **Inactive Employees**: Employees with status: inactive.
- **Update Employee**:
    - Update any field of an employee record.
    - Change employee status between active and inactive.

- **Delete Employee**:
  - Remove an employee record by ID.

4. Attendance Management

- **Mark Attendance**:
  - Allow the admin to mark attendance for multiple employees simultaneously using multi-select checkboxes.
  - Also support marking attendance for individual employees.
- **Retrieve Attendance for Date**:
  - Provide a list of all employees with their attendance status for a given date.
- **Retrieve Attendance History**:
  - Provide attendance records for an employee or for all employees across dates.

5. Email Notification on Attendance Marking

- Whenever attendance is marked, send an email to the respective employee.
- Email should include:
  - Employee name
  - Attendance status
  - Date
- Use an email service via **SMTP** to send the email. For example, you can use **Nodemailer** with SMTP configuration.

6. Data Storage

- Use **MongoDB**, **MySQL**, or **PostgreSQL** for persistent storage.
  - Tables/collections:
    - Employees
    - Attendance

Submission Guidelines:

- Provide a ZIP file containing:
  - The complete backend code.
  - A video walkthrough demonstrating the application's functionality.
- Ensure the backend runs properly on `npm start`.