

Chennai Institute of Technology
Department of Career Development Centre
Technical Training 2026 Batch
Academic year 2024-2025
Full-Stack Development Evaluation-Task

Problem Statement: Employee Management System:

Objective:

Develop a Full-Stack application that enables administrators to add employees to the system with proper form validation. The solution should ensure data integrity, a user-friendly experience, and a secure submission process.

Requirements:

Functional Requirements:

1. **Add Employee:**
 - Provide a form to add new employees with the following fields:
 - **Name:** Text input (First and Last Name).
 - **Employee ID:** Unique identifier (alphanumeric, max 10 characters).
 - **Email:** Must follow a valid email format.
 - **Phone Number:** 10-digit number, no special characters.
 - **Department:** Dropdown menu with predefined options (e.g., HR, Engineering, Marketing, etc.).
 - **Date of Joining:** Date picker, should not accept future dates.
 - **Role:** Text input, e.g., "Manager," "Developer."
 - The form should have a "Submit" button and a "Reset" button.
2. **Validations:**
 - All fields are mandatory.
 - Employee ID must be unique.
 - Email should be validated on the frontend and backend.
 - Phone number must only accept valid formats.
 - Prevent submission if any field is invalid.
3. **Feedback:**
 - Display real-time validation errors below the fields.
 - On successful submission, show a success message.
 - On failure, show an appropriate error message (e.g., "Employee ID already exists").
4. **Data Storage:**
 - Save submitted employee details to a database.
 - Ensure no duplicate Employee IDs or Emails are stored.

The idea of this task opens to any creative ideas alongside the mentioned requirements.