<u>Factory Management System</u>
Final Project: REACT+ Node.js - Fullstack Application

A complete system for managing employees, departments, and shifts in a factory.
The project includes both Backend (Node.js + Express + MongoDB) and Frontend (REACT, HTML, CSS, JavaScript).

<u>Live Demo</u>
- View Live Demo:
  https://employee-and-shift-management-syste.vercel.app/
  For example you can connect with:
  username: Antonette
  email: Shanna@melissa.tv
- Backend API hosted on Render:
  https://employeeandshiftmanagementsystem.onrender.com

<u>Main Features</u>
- Authentication: Only registered users can log in (validated via external API)
  The users are listed here: https://jsonplaceholder.typicode.com/users
- Employee Management:
  o View all employees in the factory and their assigned shifts
  o Add employee
  o Update employee
  o Delete employee
  o Assign shift to employee
- Department Management:
  o View all departments in the factory and their assigned managers
  o Add department
  o Update department
  o Delete department
  o Assign employee to department
- Shift Management:
  o View all shifts in the factory
  o Add shift
  o Update shift
  o Assign employee to shift
- User System:
  o Each user has a limited number of actions per day
  o When the limit is reached, the user is logged out until the next day and a prompt message is displayed

<u>Technologies</u>
- Backend: Node.js, Express, MongoDB
- Frontend: REACT, HTML, CSS, JavaScript
- Deployment: Vercel (Frontend), Render (Backend)

<u>Users</u>
- Only pre-registered users are allowed to log in.
  The users are listed here: https://jsonplaceholder.typicode.com/users
- Each user has a daily action limit.

The users and their limitations are detailed on 'server/data/usersActionsData.json'
- When the limit is reached, the user is logged out until the next day and a prompt message is displayed

Installation & Running Locally
- Clone the repository:
  Git clone https://github.com/your-username/factory-management.git
- Install and run the Backend:
  - cd server
  - npm install
  - npm start
- Install and run the Frontend:
  - cd client
  - npm install
  - npm run dev
- Define allowed actions per user for a specific day
  - Each user has a several number of actions they can perform per day.
  - To Login with a specific user add a record for this user and current day at 'server/data/usersActionsData.json' file.

  The record that should be added looks as follows:
  ```
  {
    "id": <user_id>,
    "maxActions": 5,
    "date": "<dd/mm/yyyy>",
    "actionAllowd": <numOfActionsUsedTodayForThisUser>
  },
  ```

  <user_id> is the user_id according to: https://jsonplaceholder.typicode.com/users

  <dd/mm/yyyy> is the current date
  <actionAllowedForThisUser> is the number of actions used so far today for this user, the value in this field must be lower than maxActions"

  For Example you can add:
  ```
  {
    "id": 2,
    "maxActions": 500,
    "date": "18/09/2025",
    "actionAllowd": 0
  }
  ```

Project Specification:
https://employee-and-shift-management-syste.vercel.app/docs/Final-Project-EmployeeShiftManagementSystem.pdf

Credits
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Node.js + REACT- Final Project