

# Employee Shift Management System

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## Class Link

([https://johnguerra.co/classes/webDevelopment\\_online\\_fall\\_2025/](https://johnguerra.co/classes/webDevelopment_online_fall_2025/))

##Live Deployment

(<http://project3.kushshah.net/>)

## Project Objective

Deliver a scheduling workspace that supports CRUD operations for shift assignments and time-off requests with a React front end and Node + MongoDB API.

## Tech Stack

- React (hooks) with Vite tooling
- Node.js + Express API
- MongoDB Atlas or local Mongo instance
- Modern CSS modules for component styling

## Repository Structure

```
frontend/  # React client, hooks-based UI, styles
backend/   # Express API (shifts + time-off CRUD backed by MongoDB)
```

## Getting Started

### Prerequisites

- Node.js  $\geq 18$
- npm  $\geq 9$
- MongoDB instance (local Docker container or cloud cluster)

### Install Dependencies

```
npm install
cd backend && npm install && cd ..
```

Copy the backend environment template and set your MongoDB connection string:

```
cp backend/.env.example backend/.env
# edit backend/.env with your credentials
```

## Run in Development Mode

```
npm run dev      # start the Vite dev server
cd backend && npm run dev
```

The Vite dev server runs on <http://localhost:5173> and the API listens on <http://localhost:4000> by default.

Create [frontend/.env](#) if you want to override the default API base URL:

```
VITE_API_BASE_URL=http://localhost:4000
```

## Build for Production

```
npm run build
```

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