Employee Shift Management System

Authors

- TODO: Add team member names here

Class Link

- TODO: Insert CS5610 section link or course page

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 ≥ 18
- npm ≥ 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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