

Workstation Manager System

Technologies Used

Frontend

- React.js - Frontend framework
- Tailwind CSS - Utility-first CSS framework for styling
- Axios - HTTP client for API requests
- Heroicons - Icon library for React
- React Router - For navigation and routing
- React Hooks - For state management and side effects
- JavaScript ES6+ - Modern JavaScript features

Backend

- Node.js - Runtime environment
- Express.js - Web application framework
- MongoDB - NoSQL database
- Mongoose - MongoDB object modeling tool
- ExcelJS - Excel file generation
- CORS - Cross-Origin Resource Sharing
- dotenv - Environment variables management

Features

Bill Transaction Management

- View and manage bill transactions
- Advanced filtering and search capabilities
- Export to Excel functionality
- Real-time statistics and reporting
- Payment mode tracking
- Date range filtering
- Amount range filtering

Workstation Manager System

Yearly Consolidated Reports

- Comprehensive yearly statistics
- Workstation performance metrics
- Financial analysis
- Occupancy tracking
- Maintenance scheduling
- Export functionality

Workstation Management

- Workstation status tracking
- Hardware specifications management
- Location management
- Maintenance scheduling
- Performance monitoring

Getting Started

Prerequisites

- Node.js (v14 or higher)
- MongoDB
- npm or yarn

Installation

1. Clone the repository

```
$ git clone https://github.com/gishnudev/MERN-Stack-Assignment
```

2. Install Frontend Dependencies

```
$ cd workstation-manager
```

```
$ npm install
```

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3. Install Backend Dependencies

```
$ cd workstation-manager-backend
```

```
$ npm install
```

4. Set up environment variables

Create a .env file in the backend directory with:

```
MONGODB_URI=mongodb://localhost:27017/workstation-manager
```

```
PORT=5000
```

Running the Application

1. Start the Backend Server

```
$ cd workstation-manager-backend
```

```
$ npm run dev
```

2. Start the Frontend Development Server

```
$ cd workstation-manager
```

```
$ npm start
```