

# Warehouse Picklist App



A modern, full-stack warehouse management system for efficient order picking and inventory tracking

LIVE DEMO **Ø** VIEW APP

GITHUB \* STAR REPO

# Overview

The Warehouse Picklist App is a comprehensive solution designed to streamline warehouse operations, optimize picking workflows, and maintain accurate inventory tracking. Built with modern technologies and a mobile-first approach, it empowers warehouse workers with an intuitive interface for efficient order processing.

## **\*** Key Benefits

- Increased Efficiency: Streamlined picking workflows reduce processing time
- Real-time Tracking: Live updates on order status and inventory changes
- Mobile Optimized: Perfect for warehouse workers using handheld devices
- Audit Trail: Complete tracking of all warehouse activities
- **Error Reduction**: Built-in validation and alternative location suggestions

# Live Demo

## **OVICE Application**

### **Demo Credentials**

Username: picker1 Password: password

Additional test accounts: picker2, supervisor (same password)

# **%** Tech Stack

#### **Frontend**

- React 18 with TypeScript
- React Router for navigation
- & Axios for API communication
- React Hot Toast for notifications
- **& Lucide React** for icons

#### **Backend**

- **Node.js** with Express.js
- **MongoDB** with Mongoose ODM
- 📆 JWT Authentication
- **O** bcryptjs for password hashing

## **Development Tools**

- **Vite** for fast development
- **TypeScript** for type safety
- **SELINT** for code quality

# Installation & Setup

### **Prerequisites**

- Node.js (v18 or higher)
- MongoDB (local or cloud instance)
- Git

#### **Quick Start**

### 1. Clone the Repository

```
git clone https://github.com/yourusername/Picklist-App.git
cd Picklist-App
```

### 2. Install Frontend Dependencies

```
cd Frontend
npm install
npm run dev
```

#### 3. Environment Setup

### **Backend Configuration:**

```
cd backend
npm install
npm start
cp .env.example .env
```

#### Edit backend/.env:

```
PORT=5000

MONGODB_URI=mongodb://localhost:27017/warehouse-picklist

JWT_SECRET=your-super-secret-jwt-key-here

NODE_ENV=development

FRONTEND_URL=http://localhost:5173
```

### **Frontend Configuration:**

```
cd frontend
cp .env.example .env
```

#### Edit frontend/.env:

```
VITE_API_BASE_URL=http://localhost:5000/api
VITE_APP_NAME=Warehouse Picklist
VITE_APP_VERSION=1.0.0
```

### 4. Start MongoDB

```
# If using local MongoDB
mongod

# Or use MongoDB Atlas cloud connection
```

### 5. Run the Application

```
# Start frontend
npm run dev

# Start Backend
npm start
```

### 6. Access the Application

- Frontend: http://localhost:5173
- o Backend API: http://localhost:5000/api
- Health Check: http://localhost:5000/api/health

### **★** Features

## **M** Authentication System

- Secure JWT-based authentication
- Role-based access control (Picker, Supervisor, Admin)
- Session management with automatic token refresh

## **Ⅲ** Dashboard & Analytics

- Real-time order statistics
- Progress tracking with visual indicators
- Order filtering by status and priority
- Performance metrics

## Order Management

- Dynamic order assignment
- Priority-based sorting
- Real-time status updates
- Bulk operations support

## Picking Workflow

- · Optimized picking routes
- Item location mapping
- Alternative location suggestions
- Barcode scanning ready

## **S** Inventory Management

- Cycle count triggers
- Stock level monitoring
- Location-based tracking
- Inventory discrepancy reporting

## Audit & Reporting

- Complete activity logging
- User action tracking
- Performance analytics
- Export capabilities

## **Mobile Experience**

- Responsive design for all devices
- Touch-friendly interface
- Offline capability (coming soon)
- PWA support (coming soon)

## **Project Structure**



# **S** Deployment

### **Production Environment Variables**

#### Backend (.env):

```
PORT=5000

MONGODB_URI=mongodb+srv://username:password@cluster.mongodb.net/warehouse-picklist
JWT_SECRET=your-production-secret-key-very-long-and-secure
NODE_ENV=production
FRONTEND_URL=https://your-frontend-domain.com
```

#### Frontend (.env):

```
VITE_API_BASE_URL=https://your-api-domain.com/api
VITE_APP_NAME=Warehouse Picklist
```

```
VITE_APP_VERSION=1.0.0
```

### **Build for Production**

```
# Build frontend
cd frontend && npm run build

# Start production server
cd backend && npm start
```

# Developer

## **Created with Shivam Singh**



Built for the future of warehouse management ⋄ ❖