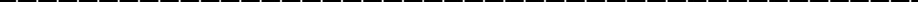


# ■■ HR-IMS: Human Resource & Inventory Management System (Enterprise Edition)

> \*\*Modern. Secure. Scalable.\*\*

> 

![Version](https://img.shields.io/badge/version-1.0.1-blue.svg)

[!\[License\]\(https://img.shields.io/badge/License-MIT-green.svg\)](https://img.shields.io/badge/License-MIT-green.svg)

[\[Security\]\(https://img.shields.io/badge/Security-RBAC%20Audit%20Logs-red.svg\)](https://img.shields.io/badge/Security-RBAC%20Audit%20Logs-red.svg)

—

The diagram illustrates the evolution of the HR-IMS system over time. It starts with a large, monolithic black bar labeled "HR-IMS" at the top. This is followed by a thin grey bar labeled "Web Application". Below these are two thick grey bars: one labeled "(HR)" and another labeled "Human Error". A horizontal dotted line separates this section from the bottom. The bottom section features a large black bar labeled "Modern Web Stack". Within this stack, three smaller components are shown: "Performance", "Security", and "User". A thin grey bar labeled "(Multi-Role RBAC)" is positioned below the "User" component.

- NextAuth.js (v5): Password Hashing (Bcrypt)
- Multi-Role RBAC: Role-Based Access Control (Admin, Auditor)
- Middleware Protection: Server-side Middleware

### ### 2. Data Integrity & Auditing

- **Audit Logs:** [REDACTED] (Create, Update, Delete)

(Revisions)

- \*\*Server Actions:\*\* [REDACTED] Server [REDACTED] (Server-side execution) [REDACTED] API [REDACTED] Client

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- \*\*Cloudflare Tunnel:\*\* [REDACTED] IP Address [REDACTED] Server [REDACTED]  
DDoS [REDACTED] Port [REDACTED]

- **Secure Headers:** [HTTP Headers]
- 
- ## [Key Features]
- |  |          |
|--|----------|
| [ ]  | [ ]      |
| [ :--- ]   | [ :--- ] |
| **Inventory**   [Real-time, Durable/Consumable, Low Stock Alert] |          |
| **Requisition**   [(Shopping Cart Experience), Workflow]         |          |
| **User Mgmt**   [ (Department), (Active/Inactive) ]              |          |
| **Maintenance**   [ , , ]  |          |
| **Scanner**   [QR Code/Barcode Web Cam]                          |          |
| **Analytics**   [Dashboard, Export CSV/PDF]                      |          |
- 
- ## [Tech Stack]
- [Enterprise Grade:]
- **Frontend Core:** [Next.js 15 (App Router)](https://nextjs.org/) - Framework
  - **Language:** [TypeScript](https://www.typescriptlang.org/) -
  - **UI Framework:** [Tailwind CSS](https://tailwindcss.com/) + [Shadcn UI](https://ui.shadcn.com/) - Responsive
  - **Database ORM:** [Prisma](https://www.prisma.io/) -
  - **Database:** SQLite (Development) / PostgreSQL (Production Support)
  - **Container:** Docker & Docker Compose
- 
- ## [Documentation]
- [ ]
- [ ]:
- ■ \*\*[User Guide (docs/USER\_GUIDE\_TH.md)](docs/USER\_GUIDE\_TH.md)\*\*:  
[ ]
  - ■ \*\*[Admin Guide (docs/ADMIN\_GUIDE\_TH.md)](docs/ADMIN\_GUIDE\_TH.md)\*\*:  
[ ]

- ■ \*\*[Technical Guide (██████████)](docs/TECHNICAL\_GUIDE\_TH.md)\*\*:  
Architecture, Database Schema, Deploy
- ■ \*\*[Documentation Index (██████████)](docs/README\_DOCS.md)\*\*

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## ██████████ (Installation)

### ██████████ (Prerequisites)

- Node.js v18+
- Git

### ██████████ (Development)

#### 1. \*\*Clone Repository\*\*

```bash

git clone https://github.com/your-org/hr-ims.git

cd hr-ims

```

#### 2. \*\*██████ Dependencies\*\*

```bash

cd frontend/next-app

npm install

```

#### 3. \*\*██████ Environment Variables\*\*

████████ `.`env` ██████████ `.`env.example`

```env

DATABASE\_URL="file:./dev.db"

AUTH\_SECRET="your-secure-secret"

```

#### 4. \*\*██████\*\*

```bash

npx prisma generate

npx prisma db push

```

#### 5. \*\*██████ (Start System)\*\*

- \*\*Backend:\*\* █████ `start\_backend.bat`
- \*\*Frontend:\*\* █████ `start\_frontend.bat`
- █████ `http://localhost:3000`

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**\*\*HR-IMS Project\*\* • \*Excellence in Resource Management\***