

Konecta ERP System

API Documentation

Development Team

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1 API Overview

1.1 Base URLs

- **Development:** `http://localhost:8084/api` (via Gateway)
- **Direct Service Access:**
 - Auth Service: `http://localhost:8089/api/auth`
 - HR Service: `http://localhost:8088/api/hr`
 - Finance Service: `http://localhost:8087/api/finance`
 - Inventory Service: `http://localhost:8086/api/inventory`
 - Reporting Service: `http://localhost:5160/api/report`

1.2 Authentication

All authenticated endpoints require a JWT token in the Authorization header:

`Authorization: Bearer <token>`

1.3 Role-Based Access Control

The system supports the following roles:

- **ADMIN:** Full system access
- **HR:** Human resources management
- **FINANCE:** Financial operations
- **INVENTORY:** Inventory management
- **EMPLOYEE:** Self-service access

2 Authentication Service APIs

2.1 Base Path: /api/auth

2.1.1 1. User Invitation

- **Endpoint:** POST /api/auth/users/invite
- **Authorization:** ADMIN, HR
- **Purpose:** Invite a new user to the system
- **Request Body:**

```
{  
  "email": "user@example.com",  
  "name": "John Doe",  
  "role": "EMPLOYEE"  
}
```

- **Response:**

```
{  
  "message": "invite sent",  
  "id": 1,  
  "email": "user@example.com"  
}
```

2.1.2 2. Validate Registration Token

- **Endpoint:** GET /api/auth/registration/validate?token={token}
- **Authorization:** Public
- **Purpose:** Validate registration token before completing registration
- **Response:**

```
{  
  "valid": true,  
  "email": "user@example.com",  
  "name": "John Doe",  
  "role": "EMPLOYEE"  
}
```

```
    "role": "EMPLOYEE"  
}
```

2.1.3 3. Complete Registration

- **Endpoint:** POST /api/auth/registration/complete
- **Authorization:** Public
- **Purpose:** Complete user registration with profile details
- **Request Body:**

```
{  
  
  "token": "verification-token",  
  
  "fullName": "John Doe",  
  
  "username": "johndoe",  
  
  "phone": "+1234567890",  
  
  "password": "securePassword123",  
  
  "Account": "1234 5678 9012 3456",  
  
  "cardType": "visa or Mastercard"  
  
}
```

- **Response:**

```
{  
  
  "message": "otp_sent",  
  
  "delivery": "email",  
  
  "expiresIn": 300  
  
}
```

2.1.4 4. Verify OTP

- **Endpoint:** POST /api/auth/registration/verify-otp
- **Authorization:** Public
- **Purpose:** Verify OTP and activate account

- **Request Body:**

```
{  
  "token": "verification-token",  
  "otp": "123456"  
}
```

- **Response:**

```
{  
  "message": "account_activated"  
}
```

2.1.5 5. Login

- **Endpoint:** POST /api/auth/login
- **Authorization:** Public
- **Purpose:** Authenticate user and receive JWT token
- **Request Body:**

```
{  
  "email": "user@example.com",  
  "password": "password123"  
}
```

- **Response:**

```
{  
  "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..."  
}
```

2.1.6 6. Get Current User Profile

- **Endpoint:** GET /api/auth/me
- **Authorization:** Authenticated
- **Response:**

```
{  
    "id": 1,  
    "username": "johndoe",  
    "email": "user@example.com",  
    "role": "EMPLOYEE"  
}
```

2.1.7 7. Update User Profile

- **Endpoint:** PUT /api/auth/me
- **Authorization:** Authenticated
- **Request Body:**

```
{  
    "username": "newusername",  
    "password": "newPassword123",  
    "confirmPassword": "newPassword123"  
}
```

2.1.8 8. List Users

- **Endpoint:** GET /api/auth/users?q={query}&role={role}
- **Authorization:** ADMIN, HR
- **Query Parameters:**
 - **q:** Search query (optional)
 - **role:** Filter by role (optional)

2.1.9 9. Update User

- **Endpoint:** PUT /api/auth/users/{id}
- **Authorization:** ADMIN, HR
- **Request Body:**

```
{  
    "fullName": "Updated Name",
```

```
    "phone": "+1234567890"  
}
```

2.1.10 10. Delete User

- **Endpoint:** DELETE /api/auth/users/{id}
- **Authorization:** ADMIN, HR

2.1.11 11. Forgot Password - Start

- **Endpoint:** POST /api/auth/forgot/start
- **Authorization:** Public
- **Request Body:**

```
{  
  "email": "user@example.com"  
}
```

2.1.12 12. Forgot Password - Complete

- **Endpoint:** POST /api/auth/forgot/complete
- **Authorization:** Public
- **Request Body:**

```
{  
  "email": "user@example.com",  
  "otp": "123456",  
  "password": "newPassword123",  
  "confirmPassword": "newPassword123"  
}
```

2.1.13 13. Validate JWT Token

- **Endpoint:** POST /api/auth/validate
- **Authorization:** Public
- **Request Body:**

```
{  
    "token": "jwt-token-string"  
}
```

3 HR Service APIs

3.1 Base Path: /api/hr

3.2 Employee Management

3.2.1 1. List All Employees

- **Endpoint:** GET /api/hr/employees
- **Authorization:** Authenticated
- **Response:** Array of EmployeeResponse

3.2.2 2. Get Employee by ID

- **Endpoint:** GET /api/hr/employees/{id}
- **Authorization:** Authenticated
- **Response:** EmployeeResponse

3.2.3 3. Create Employee

- **Endpoint:** POST /api/hr/employees
- **Authorization:** ADMIN
- **Request Body:**

```
{  
    "firstName": "John",  
    "lastName": "Doe",  
    "email": "john.doe@example.com",  
    "phone": "+1234567890",  
    "position": "Software Engineer",  
    "hireDate": "2024-01-15",  
    "salary": 75000.00,  
    "workingHours": 40.0,
```

```
    "departmentId": 1  
}
```

3.2.4 4. Update Employee

- **Endpoint:** PUT /api/hr/employees/{id}
- **Authorization:** ADMIN, HR
- **Request Body:** Same as Create

3.2.5 5. Delete Employee

- **Endpoint:** DELETE /api/hr/employees/{id}
- **Authorization:** ADMIN, HR

3.2.6 6. Ensure Employee Exists

- **Endpoint:** POST /api/hr/employees/ensure
- **Authorization:** ADMIN, HR
- **Purpose:** Create employee if not exists, or return existing
- **Request Body:**

```
{  
    "email": "john.doe@example.com",  
    "fullName": "John Doe",  
    "phone": "+1234567890",  
    "position": "Software Engineer",  
    "departmentId": 1,  
    "salary": 75000.00,  
    "workingHours": 40.0  
}
```

3.2.7 7. Get My Employee ID

- **Endpoint:** GET /api/hr/employees/me-id
- **Authorization:** EMPLOYEE
- **Response:** Employee ID (Long)

3.3 Department Management

3.3.1 1. List All Departments

- **Endpoint:** GET /api/hr/departments
- **Authorization:** Authenticated

3.3.2 2. Get Department by ID

- **Endpoint:** GET /api/hr/departments/{id}
- **Authorization:** Authenticated

3.3.3 3. Create Department

- **Endpoint:** POST /api/hr/departments
- **Authorization:** ADMIN, HR
- **Request Body:**

```
{  
    "name": "Engineering",  
    "description": "Software development department"  
}
```

3.3.4 4. Update Department

- **Endpoint:** PUT /api/hr/departments/{id}
- **Authorization:** ADMIN, HR

3.3.5 5. Delete Department

- **Endpoint:** DELETE /api/hr/departments/{id}
- **Authorization:** ADMIN, HR

3.4 Attendance Management

3.4.1 1. Mark Attendance

- **Endpoint:** POST /api/hr/attendance
- **Authorization:** EMPLOYEE
- **Request Body:**

```
{  
    "date": "2024-01-15",  
    "status": "P"}
```

```
    "present": true,  
    "workingHours": 8.0  
}
```

3.4.2 2. Get Attendance by Employee

- **Endpoint:** GET /api/hr/attendance/{employeeId}
- **Authorization:** ADMIN, HR, EMPLOYEE (own records only)

3.4.3 3. Get My Attendance

- **Endpoint:** GET /api/hr/attendance/me
- **Authorization:** EMPLOYEE

3.5 Leave Management

3.5.1 1. Create Leave Request

- **Endpoint:** POST /api/hr/leaves
- **Authorization:** EMPLOYEE
- **Request Body:**

```
{  
  "startDate": "2024-02-01",  
  "endDate": "2024-02-05",  
  "reason": "Vacation"  
}
```

3.5.2 2. List All Leave Requests

- **Endpoint:** GET /api/hr/leaves
- **Authorization:** ADMIN, HR

3.5.3 3. Get Leaves by Employee

- **Endpoint:** GET /api/hr/leaves/{employeeId}
- **Authorization:** ADMIN, HR, EMPLOYEE (own records only)

3.5.4 4. Get My Leaves

- **Endpoint:** GET /api/hr/leaves/me
- **Authorization:** EMPLOYEE

3.5.5 5. Approve Leave Request

- **Endpoint:** PUT /api/hr/leaves/{id}/approve
- **Authorization:** ADMIN, HR

3.5.6 6. Reject Leave Request

- **Endpoint:** PUT /api/hr/leaves/{id}/reject
- **Authorization:** ADMIN, HR

3.6 Job Management

3.6.1 1. List All Jobs

- **Endpoint:** GET /api/hr/jobs
- **Authorization:** Authenticated

3.6.2 2. Get Job by ID

- **Endpoint:** GET /api/hr/jobs/{id}
- **Authorization:** Authenticated

3.6.3 3. Create Job Posting

- **Endpoint:** POST /api/hr/jobs
- **Authorization:** ADMIN, HR
- **Request Body:**

```
{  
    "title": "Senior Software Engineer",  
    "description": "Job description ...",  
    "departmentId": 1,  
    "status": "OPEN"  
}
```

3.6.4 4. Update Job

- **Endpoint:** PUT /api/hr/jobs/{id}
- **Authorization:** ADMIN, HR
- **Request Body:** Same as Create

3.6.5 5. Delete Job

- **Endpoint:** DELETE /api/hr/jobs/{id}
- **Authorization:** ADMIN, HR

3.7 Performance Management

3.7.1 1. Create Performance Review

- **Endpoint:** POST /api/hr/performance
- **Authorization:** ADMIN, HR
- **Request Body:**

```
{  
    "employeeId": 1,  
    "rating": 4.5,  
    "feedback": "Excellent performance",  
    "reviewDate": "2024-01-15"  
}
```

3.7.2 2. Get Performance by Employee

- **Endpoint:** GET /api/hr/performance/{employeeId}
- **Authorization:** ADMIN, HR, EMPLOYEE (own records only)

3.7.3 3. Get My Performance

- **Endpoint:** GET /api/hr/performance/me
- **Authorization:** EMPLOYEE

3.8 Offboarding Management

3.8.1 1. Initiate Offboarding

- **Endpoint:** POST /api/hr/offboarding/initiate
- **Authorization:** ADMIN, HR
- **Request Body:**

```
{  
    "employeeId": 1,  
    "lastWorkingDay": "2024-03-01"
```

```
}
```

3.8.2 2. Get Offboarding Status

- **Endpoint:** GET /api/hr/offboarding/{employeeId}
- **Authorization:** Authenticated

3.8.3 3. Schedule Exit Interview

- **Endpoint:** POST /api/hr/offboarding/interview
- **Authorization:** ADMIN, HR

3.8.4 4. Complete Clearance

- **Endpoint:** PUT /api/hr/offboarding/clearance
- **Authorization:** ADMIN, HR

3.8.5 5. Generate Exit Documents

- **Endpoint:** POST /api/hr/offboarding/exit-documents
- **Authorization:** ADMIN, HR

3.9 AI Integration

3.9.1 1. AI Query

- **Endpoint:** POST /api/hr/ai/query
- **Authorization:** ADMIN, HR
- **Purpose:** Query external AI service for HR-related assistance
- **Request Body:**

```
{
```

```
    "query": "What are the best practices for employee onboarding?"
```

```
}
```

4 Finance Service APIs

4.1 Base Path: /api/finance

4.2 Payroll Management

4.2.1 1. Calculate Payroll

- **Endpoint:** POST /api/finance/payroll/calculate
- **Authorization:** ADMIN, FINANCE
- **Request Body:**

```
{  
    "employeeId": 1,  
    "period": "2024-01",  
    "baseSalary": 75000.00,  
    "bonuses": 5000.00,  
    "deductions": 2000.00,  
    "Account": "1234 5678 9012 3456 / visa or mastercard"  
}
```

- **Response:** PayrollResponse with calculated net salary

4.2.2 2. Calculate Payroll (Alternative)

- **Endpoint:** POST /api/finance/payroll
- **Authorization:** ADMIN, FINANCE
- Same as above

4.2.3 3. Get Payroll by Employee and Period

- **Endpoint:** GET /api/finance/payroll/employee/{employeeId}?period={period}
- **Authorization:** ADMIN, FINANCE, EMPLOYEE (own records only)

4.2.4 4. Get My Payroll

- **Endpoint:** GET /api/finance/payroll/me?period={period}
- **Authorization:** EMPLOYEE

4.2.5 5. Get Payrolls by Period

- **Endpoint:** GET /api/finance/payroll?period={period}
- **Authorization:** ADMIN, FINANCE

4.3 Invoice Management

4.3.1 1. Create Invoice

- **Endpoint:** POST /api/finance/invoices
- **Authorization:** ADMIN, FINANCE
- **Request Body:**

```
{  
    "clientName": "Acme Corporation",  
    "invoiceDate": "2024-01-15",  
    "amount": 50000.00  
}
```

4.3.2 2. Get Invoice by ID

- **Endpoint:** GET /api/finance/invoices/{id}
- **Authorization:** ADMIN, FINANCE

4.3.3 3. Update Invoice

- **Endpoint:** PUT /api/finance/invoices/{id}
- **Authorization:** ADMIN, FINANCE
- **Request Body:** Same as Create

4.3.4 4. Send Invoice

- **Endpoint:** PUT /api/finance/invoices/{id}/send
- **Authorization:** ADMIN, FINANCE
- **Purpose:** Mark invoice as sent

4.3.5 5. Mark Invoice as Paid

- **Endpoint:** PUT /api/finance/invoices/{id}/mark-paid
- **Authorization:** ADMIN, FINANCE

4.3.6 6. List Invoices

- **Endpoint:** GET /api/finance/invoices?status={status}
- **Authorization:** ADMIN, FINANCE
- **Query Parameters:**
 - **status:** Filter by status (DRAFT, SENT, PAID) - optional

4.3.7 7. Delete Invoice

- **Endpoint:** DELETE /api/finance/invoices/{id}
- **Authorization:** ADMIN, FINANCE

4.4 Expense Management

4.4.1 1. Submit Expense

- **Endpoint:** POST /api/finance/expenses
- **Authorization:** ADMIN, FINANCE, EMPLOYEE
- **Request Body:**

```
{  
    "submittedBy": 1,  
    "category": "Travel",  
    "amount": 500.00,  
    "description": "Business trip to client site"  
}
```

4.4.2 2. Approve Expense

- **Endpoint:** PUT /api/finance/expenses/{id}/approve?approverId={approverId}
- **Authorization:** ADMIN, FINANCE

4.4.3 3. Reject Expense

- **Endpoint:** PUT /api/finance/expenses/{id}/reject?approverId={approverId}
- **Authorization:** ADMIN, FINANCE

4.4.4 4. Get Expenses by Submitter

- **Endpoint:** GET /api/finance/expenses/by-submitter/{employeeId}
- **Authorization:** ADMIN, FINANCE, EMPLOYEE (own records only)

4.4.5 5. List All Expenses

- **Endpoint:** GET /api/finance/expenses?status={status}
- **Authorization:** ADMIN, FINANCE
- **Query Parameters:**
 - **status:** Filter by status (PENDING, APPROVED, REJECTED) - optional

4.4.6 6. Import Expenses (Multipart)

- **Endpoint:** POST /api/finance/expenses/import
- **Authorization:** ADMIN, FINANCE, HR
- **Content-Type:** multipart/form-data
- **Parameters:**
 - **file:** CSV/Excel file
 - **status:** Default status (default: APPROVED)
 - **dateFormat:** Date format (default: M/d/yyyy)
 - **mode:** Import mode - upsert or insert (default: upsert)

4.4.7 7. Import Expenses (Binary)

- **Endpoint:** POST /api/finance/expenses/import-bin
- **Authorization:** ADMIN, FINANCE, HR
- **Content-Type:** application/octet-stream, text/csv, or Excel MIME type
- **Headers:**
 - **X-Filename:** Optional filename
- **Query Parameters:** Same as multipart endpoint

5 Inventory Service APIs

5.1 Base Path: /api/inventory

5.2 Item Management

5.2.1 1. List All Items

- **Endpoint:** GET /api/inventory/items
- **Authorization:** Authenticated

5.2.2 2. Get Item by ID

- **Endpoint:** GET /api/inventory/items/{id}
- **Authorization:** Authenticated

5.2.3 3. Create Item

- **Endpoint:** POST /api/inventory/items
- **Authorization:** ADMIN, INVENTORY
- **Request Body:**

```
{  
    "sku": "ITEM-001",  
    "name": "Laptop",  
    "description": "15-inch laptop",  
    "unit": "pcs",  
    "reorderLevel": 10.0  
}
```

5.2.4 4. Update Item

- **Endpoint:** PUT /api/inventory/items/{id}
- **Authorization:** ADMIN, INVENTORY

5.2.5 5. Delete Item

- **Endpoint:** DELETE /api/inventory/items/{id}
- **Authorization:** ADMIN

5.3 Warehouse Management

5.3.1 1. List All Warehouses

- **Endpoint:** GET /api/inventory/warehouses
- **Authorization:** Authenticated

5.3.2 2. Get Warehouse by ID

- **Endpoint:** GET /api/inventory/warehouses/{id}
- **Authorization:** Authenticated

5.3.3 3. Create Warehouse

- **Endpoint:** POST /api/inventory/warehouses
- **Authorization:** ADMIN, INVENTORY
- **Request Body:**

```
{  
    "name": "Main Warehouse",  
    "location": "Building A, Floor 2"  
}
```

5.3.4 4. Update Warehouse

- **Endpoint:** PUT /api/inventory/warehouses/{id}
- **Authorization:** ADMIN, INVENTORY

5.3.5 5. Delete Warehouse

- **Endpoint:** DELETE /api/inventory/warehouses/{id}
- **Authorization:** ADMIN

5.4 Inventory Operations

5.4.1 1. Record Movement

- **Endpoint:** POST /api/inventory/movements
- **Authorization:** ADMIN, INVENTORY
- **Request Body:**

```
{  
    "itemId": 1,  
    "movementType": "IN",  
    "quantity": 100,  
    "location": "Building A, Floor 2",  
    "date": "2023-10-01T10:00:00Z",  
    "comment": "Initial Stock Arrival"
```

```
"warehouseId": 1,  
"type": "IN",  
"quantity": 100.0,  
"reference": "PO-12345"  
}
```

- **Movement Types:** IN, OUT

5.4.2 2. Get Stock Level

- **Endpoint:** GET /api/inventory/stock?itemId={itemId}&warehouseId={warehouseId}
- **Authorization:** ADMIN, INVENTORY
- **Query Parameters:**
 - **itemId:** Required
 - **warehouseId:** Optional (if omitted, returns total across all warehouses)

5.4.3 3. Get Low Stock Items

- **Endpoint:** GET /api/inventory/low-stock
- **Authorization:** ADMIN, INVENTORY
- **Response:** Array of items below reorder level

5.4.4 4. List All Movements

- **Endpoint:** GET /api/inventory/movements
- **Authorization:** ADMIN, INVENTORY

6 Reporting Service APIs

6.1 Base Path: /api/report

6.1.1 1. Service Health Check

- **Endpoint:** GET /api/report/test
- **Authorization:** Public
- **Response:** Service status message

6.1.2 2. Get Dashboard Analytics

- **Endpoint:** GET /api/report/dashboard?startDate={date}&endDate={date}&period={period}
- **Authorization:** ADMIN, MANAGER, HR, FINANCE
- **Query Parameters:**
 - **startDate:** Optional start date filter
 - **endDate:** Optional end date filter
 - **period:** Optional period identifier
- **Response:** DashboardAnalyticsDto with aggregated metrics

6.1.3 3. Export Report (Generic)

- **Endpoint:** POST /api/report/export
- **Authorization:** ADMIN, MANAGER, HR, FINANCE
- **Request Body:**

```
{  
    "type": "PayrollSummary",  
    "format": "Pdf",  
    "period": "2024-01",  
    "startDate": "2024-01-01",  
    "endDate": "2024-01-31",  
    "employeeId": 1  
}
```

- **Report Types:** PayrollSummary, AttendanceReport, FinancialSummary, EmployeeReport
- **Export Formats:** Pdf, Excel
- **Response:** File download (PDF or Excel)

6.1.4 4. Export Payroll Report

- **Endpoint:** GET /api/report/export/payroll?period={period}&format={format}
- **Authorization:** ADMIN, MANAGER, FINANCE
- **Query Parameters:**
 - **period:** Required (e.g., "2024-01")
 - **format:** Pdf or Excel (default: Pdf)

6.1.5 5. Export Attendance Report

- **Endpoint:** GET /api/report/export/attendance?startDate={date}&endDate={date}&employeeId={id}
- **Authorization:** ADMIN, MANAGER, HR
- **Query Parameters:**
 - **startDate:** Optional (default: 1 month ago)
 - **endDate:** Optional (default: today)
 - **employeeId:** Optional
 - **format:** Pdf or Excel (default: Pdf)

6.1.6 6. Export Financial Report

- **Endpoint:** GET /api/report/export/financial?startDate={date}&endDate={date}&format={format}
- **Authorization:** ADMIN, MANAGER, FINANCE
- **Query Parameters:**
 - **startDate:** Optional (default: 1 month ago)
 - **endDate:** Optional (default: today)
 - **format:** Pdf or Excel (default: Pdf)

6.1.7 7. Export Employee Report

- **Endpoint:** GET /api/report/export/employee/{employeeId}?startDate={date}&endDate={date}&format={format}
- **Authorization:** ADMIN, MANAGER, HR, FINANCE, EMPLOYEE (own records only)
- **Query Parameters:**
 - **startDate:** Optional (default: 6 months ago)
 - **endDate:** Optional (default: today)
 - **format:** Pdf or Excel (default: Pdf)

7 Summary

This API documentation provides comprehensive details for all endpoints available in the Konecta ERP System. The system implements RESTful APIs with JWT-based authentication and role-based access control, ensuring secure access to various business functions across HR, Finance, Inventory, and Reporting domains.

All endpoints follow consistent patterns:

- **Authentication:** JWT tokens in Authorization headers
- **Authorization:** Role-based access control (RBAC)
- **Data Format:** JSON for request and response bodies
- **Error Handling:** Standard HTTP status codes
- **Versioning:** API versioning through path prefixes