

File: D:\Android\sso_wis_wismon_nodejs\be_wismon_keuangan\.env

```
# Environment Variables
PORT=3000
NODE_ENV=development
NODE_ENV=development

# Database Configuration - SSO
DB_SSO_HOST=127.0.0.1
DB_SSO_PORT=3306
DB_SSO_USER=root
DB_SSO_PASSWORD=
DB_SSO_NAME=u4714151_sso

# Database Configuration - WIS
DB_WIS_HOST=127.0.0.1
DB_WIS_PORT=3306
DB_WIS_USER=root
DB_WIS_PASSWORD=
DB_WIS_NAME=u4714151_wis

# Database Configuration - WISAKA
DB_WIS_HOST=127.0.0.1
DB_WIS_PORT=3306
DB_WIS_USER=root
DB_WIS_PASSWORD=
DB_WIS_NAME=u4714151_wisaka

# Database Configuration - WISMON
DB_WISMON_HOST=127.0.0.1
DB_WISMON_PORT=3306
DB_WISMON_USER=root
DB_WISMON_PASSWORD=
DB_WISMON_NAME=u4714151_wismon

# JWT Secret
JWT_SECRET=your-super-secret-jwt-key-u4714151-wismon-development

# CORS Settings - Allow Android emulator access
CORS_ORIGIN=*

# API Host (0.0.0.0 allows external connections for Android testing)
API_HOST=0.0.0.0
```

File: D:\Android\sso_wis_wismon_nodejs\be_wismon_keuangan\.gitignore

```
# Dependencies
node_modules/
npm-debug.log*
yarn-debug.log*
yarn-error.log*

# Runtime data
pids
*.pid
*.seed
*.pid.lock

# Build output
dist/
build/
*.tsbuildinfo

# Environment variables
```

```

.env
.env.local
.env.development.local
.env.test.local
.env.production.local

# IDE files
.vscode/
.idea/
*.swp
*.swo
*~

# OS generated files
.DS_Store
.DS_Store;
._*
.Spotlight-V100
.Trashes
ehthumbs.db
Thumbs.db

# Logs
logs
*.log

# Coverage directory used by tools like istanbul
coverage/

# Temporary folders
tmp/
temp/

```

File: D:\Android\sso_wis_wismon_nodejs\be_wismon_keuangan\API_DOCUMENTATION.md

Wismon Keuangan Backend API Documentation

Overview

Backend API untuk aplikasi Wismon Keuangan - sistem pembayaran mahasiswa Universitas Wirahusada.

Database Architecture

- ****wirahusada_sso****: Authentication dan authorization (7 tables)
- ****wirahusada_wis****: Student dan staff management (7 tables)
- ****wirahusada_wismon****: Financial transactions dan payment processing (20 tables)

Authentication Endpoints

POST /api/auth/login

Login mahasiswa menggunakan nama/NIM dan NRM.

****Request Body:****

```

```json
{
 "namam_nim": "string", // Nama mahasiswa atau NIM
 "nrm": "string" // Nomor Registrasi Mahasiswa
}
```

```

****Response:****

```

```json
{
 "success": true,
 "message": "Login successful",
 "data": {
 "token": "jwt_token_here",
 "user": {
 "nrm": "student_nrm",
 "nim": "student_nim",
 "namam": "Student Full Name"
 }
 }
}
```

```

****Pencarian Nama Aman:****

Login mendukung pencarian nama yang case-insensitive dengan exact matching untuk keamanan:

- ٪ ****Case-insensitive****: `Hanik Zaimatus Sholichah` = `hanik zaimatus sholichah`
- ٪ ****Tanpa spasi****: `HanikZaimatusSholichah` akan cocok dengan `Hanik Zaimatus Sholichah`
- ٪ ****Mixed case****: `hAnikzaimAtussholichAh` akan cocok dengan nama asli (tanpa spasi)
- ٪ ****Partial match dihapus****: Untuk keamanan, tidak ada pencarian sebagian nama

****Authentication Flow:****

1. Coba cari berdasarkan NIM exact match
2. Jika tidak ditemukan, cari berdasarkan nama dengan exact match (case-insensitive)
3. Jika masih tidak ditemukan, coba cari dengan menghilangkan spasi (exact match, case-insensitive)

GET /api/auth/profile

Mendapatkan profil mahasiswa yang sedang login.

****Headers:****

```

```
Authorization: Bearer <jwt_token>
```

```

****Response:****

```

```json
{
 "success": true,
 "data": {
 "nrm": "student_nrm",
 "nim": "student_nim",
 "namam": "Student Full Name",
 "tgdaftar": "registration_date",
 "tplahir": "birth_place"
 }
}
```

```

POST /api/auth/verify

Verifikasi token JWT.

****Request Body:****

```

```json
{
 "token": "jwt_token_here"
}
```

```

****Response:****

```
```json
{
 "success": true,
 "data": {
 "valid": true,
 "user": {
 "nrm": "student_nrm",
 "nim": "student_nim",
 "namam": "Student Full Name"
 }
 }
}
```
```

2 Login Page Implementation (pagellogin.txt)

`POST /api/auth/login`

****Purpose**:** Student login authentication

****Database Access**:**

- Primary: `wirahusada_wis.mahasiswa` (student identification)
- Secondary: `wirahusada_sso.user` (future authentication enhancement)

****Request Body**:**

```
```json
{
 "namam_nim": "string", // Student name OR NIM
 "nrm": "string" // Student registration number
}
```
```

****Response Success (200)**:**

```
```json
{
 "success": true,
 "message": "Login successful",
 "data": {
 "token": "jwt_token_here",
 "user": {
 "nrm": "student_nrm",
 "nim": "student_nim",
 "namam": "student_name"
 }
 }
}
```
```

****Database Query Flow**:**

1. Search by NIM + NRM: `SELECT * FROM mahasiswa WHERE nim = 2 AND nrm = 2`
2. If not found, search by name: `SELECT * FROM mahasiswa WHERE namam LIKE 2 AND nrm = 2`

2 Homepage Implementation (page2home.txt)

`GET /api/auth/profile`

****Purpose**:** Get student profile for homepage greeting ("hello, [student's namam]")

****Database Access**:** `wirahusada_wis.mahasiswa`

****Authentication**:** Required

****Response Success (200)**:**

```
```json
{
 "success": true,
 "message": "Profile retrieved successfully",
 "data": {
 "nrm": "student_nrm",
 "nim": "student_nim",
 "namam": "student_name", // Used for homepage greeting
 "tgdaftar": "2023-01-15",
 "tplahir": "2001-05-20"
 }
}
```
```

****Database Query**:** `SELECT nrm, nim, namam, tgdaftar, tplahir, kdagama FROM mahasiswa WHERE nrm = 2`

`POST /api/auth/verify`

****Purpose**:** Verify JWT token validity

****Authentication**:** Required

2 Wismon Payment Page Implementation (page3wismon.txt)

`GET /api/payments/history`

****Purpose**:** Get payment history with filtering (Riwayat Pembayaran)

****Database Access**:**

- `wirahusada_wismon.transaksi` - Transaction records
- `wirahusada_wismon.t_pembayaranmahasiswa` - Student payment links
- `wirahusada_wismon.akun` - Account/payment method info

****Query Parameters**:**

```
```
?page=1&limit=20&startDate=2024-01-01&endDate=2024-12-31&type=Ijazah&sortBy=tanggal&sortOrder=desc
```
```

****Response Success (200)**:**

```
```json
{
 "success": true,
 "message": "Payment history retrieved successfully",
 "data": {
 "data": [
 {
 "id": "transaction_id",
 "tanggal": "24 Juni 2025",
 "tanggal_full": "24 Juni 2025, 10:30:15 WIB",
 "type": "KTI dan Wisuda",
 "jumlah": "Rp 1.750.000",
 "status": "LUNAS",
 "tx_id": "135842-AKD-20250624",
 "method": "101 - Tunai - Kas Akademi",
 "method_code": "101"
 }
],
 "total": 25,
 }
}
```

```
"page": 1,
"limit": 20
}
}
...
```

**\*\*Database Query\*\*:**

```
```sql
SELECT
    t.id, t.kode_transaksi as tx_id,
    DATE_FORMAT(t.tanggal, '%d %M %Y') as tanggal,
    DATE_FORMAT(t.tanggal, '%d %M %Y, %H:%i:%s WIB') as tanggal_full,
    a.nama_akun as type,
    CONCAT('Rp ', FORMAT(t.total, 0)) as jumlah,
    'LUNAS' as status,
    CONCAT(a.kode, ' - ', a.nama_akun) as method,
    a.kode as method_code
FROM transaksi t
INNER JOIN t_pembayaranmahasiswa tpm ON t.id = tpm.no
INNER JOIN akun a ON t.kodeakun = a.kode
WHERE tpm.nrm = 2
ORDER BY t.tanggal DESC
LIMIT 2 OFFSET 2
```
```

### `GET /api/payments/summary`

**\*\*Purpose\*\*:** Get payment recapitulation (Rekapitulasi Pembayaran)  
**\*\*Database Access\*\*:** `wirahusada\_wismon` (aggregated transaction data)

**\*\*Response Success (200)\*\*:**

```
```json
{
    "success": true,
    "message": "Payment summary retrieved successfully",
    "data": {
        "total_pembayaran": "Rp 2.300.000",
        "breakdown": {
            "Ijazah": "Rp 400.000",
            "KTI dan Wisuda": "Rp 1.750.000",
            "Lain-lain": "Rp 150.000"
        }
    }
}
}
...
```

****Database Query**:**

```
```sql
SELECT
 a.nama_akun as payment_type,
 SUM(t.total) as total_amount
FROM transaksi t
INNER JOIN t_pembayaranmahasiswa tpm ON t.id = tpm.no
INNER JOIN akun a ON t.kodeakun = a.kode
WHERE tpm.nrm = 2
GROUP BY a.nama_akun, a.kode
ORDER BY total_amount DESC
```
```

`GET /api/payments/detail/:id`

****Purpose**:** Get detailed transaction information (Detail Transaksi)
****Database Access**:**

- `wirahusada_wismon` - Transaction details
- `wirahusada_wis.mahasiswa` - Student information

****Response Success (200)**:**

```
```json
{
 "success": true,
 "message": "Transaction detail retrieved successfully",
 "data": {
 "id": "transaction_id",
 "tanggal": "24 Juni 2025",
 "tanggal_full": "24 Juni 2025, 10:30:15 WIB",
 "type": "KTI dan Wisuda",
 "jumlah": "Rp 1.750.000",
 "status": "LUNAS",
 "tx_id": "135842-AKD-20250624", // Copyable transaction ID
 "method": "101 - Tunai - Kas Akademi",
 "student_name": "Budi Santoso",
 "student_nim": "202201001",
 "student_prodi": "D3 Keperawatan",
 "payment_breakdown": {
 "KTI dan Wisuda": "Rp 1.750.000"
 }
 }
}
```
```

`POST /api/payments/refresh`

****Purpose**:** Refresh payment data (Refresh button)

****Response Success (200)**:**

```
```json
{
 "success": true,
 "message": "Payment data refreshed successfully",
 "data": { "refreshed": true }
}
```
```

`GET /api/payments/types`

****Purpose**:** Get available payment types for filtering

****Response Success (200)**:**

```
```json
{
 "success": true,
 "message": "Payment types retrieved successfully",
 "data": [
 "Tunai - Kas Akademi",
 "Cek - Bank BNI",
 "Ijazah",
 "KTI dan Wisuda",
 "Lain-lain"
]
}
```
```

2 System Endpoints

`GET /health`

****Purpose**:** Health check

****Authentication**:** Not required

`GET /`

****Purpose**:** API information and available endpoints

****Authentication**:** Not required

2 Database Schema Relationships

Key Foreign Key Relationships

- `t_pembayaranmahasiswa.nrm` 2 `wirahusada_wis.mahasiswa.nrm`
- `t_pembayaranmahasiswa.no` 2 `transaksi.id`
- `transaksi.kodeakun` 2 `akun.kode`

Data Flow Patterns

1. ****Authentication**:** `wirahusada_wis.mahasiswa` for student validation
2. ****Homepage**:** `wirahusada_wis.mahasiswa` for greeting
3. ****Payment History**:** `wirahusada_wismon` tables joined for transaction data
4. ****Payment Detail**:** Cross-database join between `wirahusada_wismon` and `wirahusada_wis`

3 Frontend Integration Examples

Login Implementation

```javascript

```
const login = async (namam_nim, nrm) => {
 const response = await fetch("/api/auth/login", {
 method: "POST",
 headers: { "Content-Type": "application/json" },
 body: JSON.stringify({ namam_nim, nrm }),
 });

 const result = await response.json();
 if (result.success) {
 localStorage.setItem("token", result.data.token);
 window.location.href = "/homepage";
 }
};
```

```

Homepage Greeting

```javascript

```
const loadHomepage = async () => {
 const response = await fetch("/api/auth/profile", {
 headers: { Authorization: `Bearer ${localStorage.getItem("token")}` },
 });

 const result = await response.json();
 if (result.success) {
 document.getElementById(
 "greeting"
).textContent = `hello, ${result.data.namam}`;
 }
};
```

```


Payment History with Filters

```
```javascript
const loadPaymentHistory = async (filters = {}) => {
 const params = new URLSearchParams(filters);
 const response = await fetch(`/api/payments/history?${params}`, {
 headers: { Authorization: `Bearer ${localStorage.getItem("token")}` },
 });

 const result = await response.json();
 if (result.success) {
 renderPaymentHistory(result.data.data);
 }
};

// Example usage with filters
loadPaymentHistory({
 page: 1,
 limit: 20,
 type: "Ijazah",
 sortBy: "tanggal",
 sortOrder: "desc",
});
```
```

Transaction Detail

```
```javascript
const showTransactionDetail = async (transactionId) => {
 const response = await fetch(`/api/payments/detail/${transactionId}`, {
 headers: { Authorization: `Bearer ${localStorage.getItem("token")}` },
 });

 const result = await response.json();
 if (result.success) {
 populateDetailPage(result.data);
 }
};
```
```

& Security Features

- **JWT Authentication**: 24-hour token expiration
- **CORS Protection**: Configured for specific origins
- **Input Validation**: All inputs validated and sanitized
- **SQL Injection Prevention**: Parameterized queries
- **Authorization Checks**: User can only access their own data

& Performance Optimizations

- **Connection Pooling**: MySQL connection pools (limit: 10)
- **Pagination**: Default 20 items per page for history
- **Indexed Queries**: Database indexes on key columns
- **Request Logging**: For monitoring and debugging

& Error Handling

All endpoints return consistent error format:

```

```json
{
 "success": false,
 "message": "Error description",
 "errors": ["detailed_error_1", "detailed_error_2"]
}
```

```

****Common HTTP Status Codes**:**

```

- `200`: Success
- `400`: Bad Request (validation errors)
- `401`: Unauthorized (missing/invalid token)
- `403`: Forbidden (token expired)
- `404`: Not Found (resource not found)
- `500`: Internal Server Error

```

****Example Error Responses**:**

```

```json
// Login failed
{
 "success": false,
 "message": "Student not found or invalid credentials",
 "errors": ["Student not found or invalid credentials"]
}

// Missing authentication
{
 "success": false,
 "message": "Access token required",
 "errors": ["Access token required"]
}

// Invalid transaction ID
{
 "success": false,
 "message": "Transaction not found",
 "errors": ["Transaction not found or does not belong to this user"]
}
```

```

File: D:\Android\sso_wis_wismon_nodejs\be_wismon_keuangan\package-lock.json

```

{
  "name": "be_wismon_keuangan",
  "version": "1.0.0",
  "lockfileVersion": 3,
  "requires": true,
  "packages": {
    "": {
      "name": "be_wismon_keuangan",
      "version": "1.0.0",
      "license": "ISC",
      "dependencies": {
        "@types/bcryptjs": "^2.4.6",
        "@types/cors": "^2.8.19",
        "@types/jsonwebtoken": "^9.0.10",
        "bcryptjs": "^3.0.2",
        "cors": "^2.8.5",
        "dotenv": "^16.4.7",
        "express": "^4.21.2",
        "express-rate-limit": "^7.5.1",
        "helmet": "^8.1.0",

```

```

    "jsonwebtoken": "^9.0.2",
    "mysql2": "^3.11.5"
  },
  "devDependencies": {
    "@types/express": "^5.0.0",
    "@types/node": "^22.10.2",
    "nodemon": "^3.1.9",
    "ts-node": "^10.9.2",
    "typescript": "^5.7.2"
  }
},
"node_modules/@cspotcode/source-map-support": {
  "version": "0.8.1",
  "resolved": "https://registry.npmjs.org/@cspotcode/source-map-support/-/source-map-support-0.8.1.tgz",
  "integrity": "sha512-IchNf6dN4tHoMFIIn/7OE8LWZ19Y6q/67Bmf6vnGREv8RSBVBv9LPJxEcnwrcwX6ixSvaiGoomAUvu4YSxXrVgw==",
  "dev": true,
  "license": "MIT",
  "dependencies": {
    "@jridgewell/trace-mapping": "0.3.9"
  },
  "engines": {
    "node": ">=12"
  }
},
"node_modules/@jridgewell/resolve-uri": {
  "version": "3.1.2",
  "resolved": "https://registry.npmjs.org/@jridgewell/resolve-uri/-/resolve-uri-3.1.2.tgz",
  "integrity": "sha512-bIp秦r35bk23tFsVCQJ6rFc2VhpgPAyUe61oY2FwIuK6VAqbXOstYAgZVg5yBv7zJZvrh+x6B5GqASfK6u0A==",
  "dev": true,
  "license": "MIT",
  "engines": {
    "node": ">=6.0.0"
  }
},
"node_modules/@jridgewell/sourcemap-codec": {
  "version": "1.5.0",
  "resolved": "https://registry.npmjs.org/@jridgewell/sourcemap-codec/-/sourcemap-codec-1.5.0.tgz",
  "integrity": "sha512-yImMmAe4J+qH/6u795oAaol6OgB/xJzWg4U9aYxmdg+Uv6zoJX8Fv/6y3qCuT5Gn2W6NWXFlba6u3ZhwgQ==",
  "dev": true,
  "license": "MIT"
},
"node_modules/@jridgewell/trace-mapping": {
  "version": "0.3.9",
  "resolved": "https://registry.npmjs.org/@jridgewell/trace-mapping/-/trace-mapping-0.3.9.tgz",
  "integrity": "sha512-3DkHJfTm1Zs4xBQ0pUEaPi4Pp7Fkd+VlS9uyt9w8YFp/lWlIUshfkyjMNvopF7/sllc00+bA8U2osml7Ww=="
},
"node_modules/@tsconfig/node10": {
  "version": "1.0.11",
  "resolved": "https://registry.npmjs.org/@tsconfig/node10/-/node10-1.0.11.tgz",
  "integrity": "sha512-f31P9fnt6T3m7b292YjKN/AS9AGbWYgLO7/NT8d7auexv6a4lL2+YuZgrP6VU4w7JvZuVLCRdLH8Ezbu1DhA=="
},
"node_modules/@tsconfig/node12": {
  "version": "1.0.11",
  "resolved": "https://registry.npmjs.org/@tsconfig/node12/-/node12-1.0.11.tgz",
  "integrity": "sha512-cDG7iJkmHMDM6MM0Y1ZG2yqB8k7VapV4WZu2R+dIuKbtz3hJW4YFMcW9pnrW6k3L8Uyo13MI1h3gWdxiFNA=="
},

```

```

"resolved": "https://registry.npmjs.org/@tsconfig/node12/-/node12-1.0.11.tgz",
"integrity":
"sha512-cqefuRshl2pWyGsIoBKJA9luFu3mRxCA+ORZvA4ktLSzIuCtWVxGIuXigEwO5/ywWFMZ2QEGKWvkZGlzDMTag=",
"dev": true,
"license": "MIT"
},
"node_modules/@tsconfig/node14": {
"version": "1.0.3",
"resolved": "https://registry.npmjs.org/@tsconfig/node14/-/node14-1.0.3.tgz",
"integrity":
"sha512-ysT8mhdixWK6Hw3ilV2AeRqZ5WfXglG43mqoYlM2nc6388Fq5jcXyr5mRsQViLx/GJYdoL0bfXD8nmF+Zn/Iow=",
"dev": true,
"license": "MIT"
},
"node_modules/@tsconfig/node16": {
"version": "1.0.4",
"resolved": "https://registry.npmjs.org/@tsconfig/node16/-/node16-1.0.4.tgz",
"integrity":
"sha512-vxhUy4J8lyeyinH7Azllpdd43GJhZH/tP2weN8TntQblOY+A0XbT8DJk1/oCPuOOyg/Ja757rG0CgHcWC8OfMA=",
"dev": true,
"license": "MIT"
},
"node_modules/@types/bcryptjs": {
"version": "2.4.6",
"resolved": "https://registry.npmjs.org/@types/bcryptjs/-/bcryptjs-2.4.6.tgz",
"integrity":
"sha512-9xlo6R2qDs5uixm0bcIqCeMCE6HiQsIyel9KQySStiyqNl2tnj2mP3DXlNf56MD6KMenNNlBBsy3LJ7gUEQPXQ=",
"license": "MIT"
},
"node_modules/@types/body-parser": {
"version": "1.19.6",
"resolved": "https://registry.npmjs.org/@types/body-parser/-/body-parser-1.19.6.tgz",
"integrity":
"sha512-HLFeCYgz89uk22N5Qg3dvGvsv46B8GLvKKolzKG4NybA8U2DiEO3w9lqGg29t/tfLRJpJ6iQxnVw4OnB7MoM9g=",
"dev": true,
"license": "MIT",
"dependencies": {
"@types/connect": "*",
"@types/node": "*"
}
},
"node_modules/@types/connect": {
"version": "3.4.38",
"resolved": "https://registry.npmjs.org/@types/connect/-/connect-3.4.38.tgz",
"integrity":
"sha512-K6uROf1LD88uDQqJCKtA4yzL1YYAK6NgfsI0v/mTgyPKWsXlCnJ0XPSDhViejru1GcRkLWb8RlzFYJRqGUbaug=",
"dev": true,
"license": "MIT",
"dependencies": {
"@types/node": "*"
}
},
"node_modules/@types/cors": {
"version": "2.8.19",
"resolved": "https://registry.npmjs.org/@types/cors/-/cors-2.8.19.tgz",
"integrity":
"sha512-mFNylyeyqN93lfe/9CSxOGREz8cpzAhH+E93xJ4xWQf62V8sQ/24rev2nyzUWM6H6Xji+GGHpkbLe7pVoUEskg=",
"license": "MIT",
"dependencies": {
"@types/node": "*"
}
},
"node_modules/@types/express": {
"version": "5.0.3",
"resolved": "https://registry.npmjs.org/@types/express/-/express-5.0.3.tgz",
"integrity":

```

```

"sha512-wGA0NX93b19/dZC1Jl8tKWVIYWyF2ZjT9vin/NRu0qzzvfVzWjs04iq2rQ3H65vCTQYlRqs3YHfY7zjdV+9Kw==",
  "dev": true,
  "license": "MIT",
  "dependencies": {
    "@types/body-parser": "*",
    "@types/express-serve-static-core": "^5.0.0",
    "@types/serve-static": "*"
  }
},
"node_modules/@types/express-serve-static-core": {
  "version": "5.0.6",
  "resolved": "https://registry.npmjs.org/@types/express-serve-static-core/-/express-serve-static-core-5.0.6.tgz",
  "integrity": "sha512-3xhRnJpKULekpsSzgtoNYcTWgEZkp4myc+Saevii5JPnHNvHMRlBSHDbs7Bh1iPPoVTERHEZxyhyLbMEsExsA==",
  "dev": true,
  "license": "MIT",
  "dependencies": {
    "@types/node": "*",
    "@types/qs": "*",
    "@types/range-parser": "*",
    "@types/send": "*"
  }
},
"node_modules/@types/http-errors": {
  "version": "2.0.5",
  "resolved": "https://registry.npmjs.org/@types/http-errors/-/http-errors-2.0.5.tgz",
  "integrity": "sha512-r8Tayk8HJnX0FztbZN7oVqGccWgw98T/0neJph09lKkmOzuglKkofZURD4UaD5uH8AqcFLfdPErnBod0u71/qg==",
  "dev": true,
  "license": "MIT"
},
"node_modules/@types/jsonwebtoken": {
  "version": "9.0.10",
  "resolved": "https://registry.npmjs.org/@types/jsonwebtoken/-/jsonwebtoken-9.0.10.tgz",
  "integrity": "sha512-asx5hiG9Qmf/1oStypjanR7iKTv0gXQ10v/jfrX6kS/E00Fni8orbmGCn0672NHR3kXHwpAwR+B368ZGN/2rA==",
  "license": "MIT",
  "dependencies": {
    "@types/ms": "*",
    "@types/node": "*"
  }
},
"node_modules/@types/mime": {
  "version": "1.3.5",
  "resolved": "https://registry.npmjs.org/@types/mime/-/mime-1.3.5.tgz",
  "integrity": "sha512-cU04gP29ubP7S7nVdk+q/X6gr7uUG6ZbQ30SrnMi6kluF8aUzHwUdHqQZ5Y1199gub5wI5Zr573rXq4w==",
  "dev": true,
  "license": "MIT"
},
"node_modules/@types/ms": {
  "version": "2.1.0",
  "resolved": "https://registry.npmjs.org/@types/ms/-/ms-2.1.0.tgz",
  "integrity": "sha512-G696G2LW22rGo8kLjP3kZqjNKgY8t0ZuKoHq5abwUuN63GRWZ1Rg58bZrQ66p6HwHw1z303Q6v34w==",
  "dev": true,
  "license": "MIT"
},
"node_modules/@types/node": {
  "version": "22.15.33",
  "resolved": "https://registry.npmjs.org/@types/node/-/node-22.15.33.tgz",
  "integrity": "sha512-wzoocdnnpSxZ+6CjW4ADCK1jVmd1S/J3ArNWfn8FDDQtRm8dkDg7TA+mvek2wNrfCgwuZxqEOiB9B1XCJ6+dbw==",
  "license": "MIT",
  "dependencies": {
    "undici-types": "~6.21.0"
  }
}

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    }
  },
  "node_modules/@types/qs": {
    "version": "6.14.0",
    "resolved": "https://registry.npmjs.org/@types/qs/-/qs-6.14.0.tgz",
    "integrity":
"sha512-eOunJqu0K1923aExK6y8p6fsihYEn/BYuQ4g0CxAAgFc4b/ZLN4CrSRZ55srTdqoiLzU2B2evC+apEIXprEzkQ==",
    "dev": true,
    "license": "MIT"
  },
  "node_modules/@types/range-parser": {
    "version": "1.2.7",
    "resolved": "https://registry.npmjs.org/@types/range-parser/-/range-parser-1.2.7.tgz",
    "integrity":
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    "dev": true,
    "license": "MIT"
  },
  "node_modules/@types/send": {
    "version": "0.17.5",
    "resolved": "https://registry.npmjs.org/@types/send/-/send-0.17.5.tgz",
    "integrity":
"sha512-z6F2D3c0StZvuk2SaP6YrwkN065iTZcwA2ZkSABegdkAh/lf+Aa/YQndZVfmEXT5vgAp6zv06VQ3ejSVjAny4w==",
    "dev": true,
    "license": "MIT",
    "dependencies": {
      "@types/mime": "^1",
      "@types/node": "*"
    }
  },
  "node_modules/@types/serve-static": {
    "version": "1.15.8",
    "resolved": "https://registry.npmjs.org/@types/serve-static/-/serve-static-1.15.8.tgz",
    "integrity":
"sha512-roei0UY3LhpOJvjbIP6ZzFngyLK15dskOtDhxY5THRSpo+ZI+nzJ+m5yUMzGrp89YRa7lvknKkMYjqQGWA7Sg==",
    "dev": true,
    "license": "MIT",
    "dependencies": {
      "@types/http-errors": "*",
      "@types/node": "*",
      "@types/send": "*"
    }
  },
  "node_modules/accepts": {
    "version": "1.3.8",
    "resolved": "https://registry.npmjs.org/accepts/-/accepts-1.3.8.tgz",
    "integrity":
"sha512-PYathTa2m2VKxuvSD3DPC/Gy+U+sOA1LAuT8mkmRuvw+NACSaeXEQ+NHcVF7rONl6qcaxV3Uuemwawk+7+SJLw==",
    "license": "MIT",
    "dependencies": {
      "mime-types": "~2.1.34",
      "negotiator": "0.6.3"
    },
    "engines": {
      "node": ">= 0.6"
    }
  },
  "node_modules/acorn": {
    "version": "8.15.0",
    "resolved": "https://registry.npmjs.org/acorn/-/acorn-8.15.0.tgz",
    "integrity":
"sha512-NZyJarBfL7nWwIq+FDL6Zp/yHEhePMNnnJ0y3qfieCrmNvYct8uvtiV4lUvlSe6apAfk0fYlFbWx+NwfmptvTg==",
    "dev": true,
    "license": "MIT",
    "bin": {
      "acorn": "bin/acorn"
    }
  }
}

```

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    },
    "engines": {
      "node": ">=0.4.0"
    }
  },
  "node_modules/acorn-walk": {
    "version": "8.3.4",
    "resolved": "https://registry.npmjs.org/acorn-walk/-/acorn-walk-8.3.4.tgz",
    "integrity":
"sha512-ueEepnujppqee2o5aIYnvHU6C0A42MNdsIDeqy5BydrkuC5R1ZuUfNm27EeFJGoEHJQgn3uleRvmTXaJgfgXbt4g==",
    "dev": true,
    "license": "MIT",
    "dependencies": {
      "acorn": "^8.11.0"
    },
    "engines": {
      "node": ">=0.4.0"
    }
  },
  "node_modules/anymatch": {
    "version": "3.1.3",
    "resolved": "https://registry.npmjs.org/anymatch/-/anymatch-3.1.3.tgz",
    "integrity":
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    "dev": true,
    "license": "ISC",
    "dependencies": {
      "normalize-path": "^3.0.0",
      "picomatch": "^2.0.4"
    },
    "engines": {
      "node": ">= 8"
    }
  },
  "node_modules/arg": {
    "version": "4.1.3",
    "resolved": "https://registry.npmjs.org/arg/-/arg-4.1.3.tgz",
    "integrity":
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    "dev": true,
    "license": "MIT"
  },
  "node_modules/array-flatten": {
    "version": "1.1.1",
    "resolved": "https://registry.npmjs.org/array-flatten/-/array-flatten-1.1.1.tgz",
    "integrity":
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    "license": "MIT"
  },
  "node_modules/aws-ssl-profiles": {
    "version": "1.1.2",
    "resolved": "https://registry.npmjs.org/aws-ssl-profiles/-/aws-ssl-profiles-1.1.2.tgz",
    "integrity":
"sha512-NZKq9AfyQvEeNlN0zSYAaWrmBffJh3IELMZfRpJVWgrpEbtEpnjvzqBPf+mxoI287JohRDoa+/nsfqqiZmF6g==",
    "license": "MIT",
    "engines": {
      "node": ">= 6.0.0"
    }
  },
  "node_modules/balanced-match": {
    "version": "1.0.2",
    "resolved": "https://registry.npmjs.org/balanced-match/-/balanced-match-1.0.2.tgz",
    "integrity":
"sha512-3oSeUO0TMV67hNlAmbXsK4yaqU7tjiHlbbxRDZOPh0KW9+CeX4bRAaX0Anxt0tx2MrpRpWwQaPwIlISEJhYU5Pw==",
    "dev": true,
    "license": "MIT"
  }

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    },
    "node_modules/bcryptjs": {
      "version": "3.0.2",
      "resolved": "https://registry.npmjs.org/bcryptjs/-/bcryptjs-3.0.2.tgz",
      "integrity":
"sha512-k38b3X0ZKv60C4E2hVsXTolJWfkGRMBILBie2IBITXciy5bOsTKot5kDrf3ZfufQtQOUN5mXceUEpUlrTl9Uog==",
      "license": "BSD-3-Clause",
      "bin": {
        "bcrypt": "bin/bcrypt"
      }
    },
    "node_modules/binary-extensions": {
      "version": "2.3.0",
      "resolved": "https://registry.npmjs.org/binary-extensions/-/binary-extensions-2.3.0.tgz",
      "integrity":
"sha512-Ceh+7ox5qe7LJuLHoY0feh3pHuUDHAcRUeyL2VYghZwfpkNIy/+8Ocg0a3UuSoYzavmylwuLWQOf3hl0jjMMIw==",
      "dev": true,
      "license": "MIT",
      "engines": {
        "node": ">=8"
      },
      "funding": {
        "url": "https://github.com/sponsors/sindresorhus"
      }
    },
    "node_modules/body-parser": {
      "version": "1.20.3",
      "resolved": "https://registry.npmjs.org/body-parser/-/body-parser-1.20.3.tgz",
      "integrity":
"sha512-7r9Y236DhK1422H8U09S85vDz3UR2A5bY1Hx7I5b5+cQv1G98v3G4/H9SpT9cUxirKOifeg527Lr66Q==",
      "license": "MIT",
      "dependencies": {
        "bytes": "3.1.2",
        "content-type": "~1.0.5",
        "debug": "2.6.9",
        "depd": "2.0.0",
        "destroy": "1.2.0",
        "http-errors": "2.0.0",
        "iconv-lite": "0.4.24",
        "on-finished": "2.4.1",
        "qs": "6.13.0",
        "raw-body": "2.5.2",
        "type-is": "~1.6.18",
        "unpipe": "1.0.0"
      },
      "engines": {
        "node": ">= 0.8",
        "npm": "1.2.8000 || >= 1.4.16"
      }
    },
    "node_modules/body-parser/node_modules/debug": {
      "version": "2.6.9",
      "resolved": "https://registry.npmjs.org/debug/-/debug-2.6.9.tgz",
      "integrity":
"sha512-bC7ElrdJaJnPbAP+1EotYvqZsb3ecl5wi6Bfi6BJTUcNowp6cvspg0jXznRTKDjm/E7AdgFBVeAPVMNcKGsHMA==",
      "license": "MIT",
      "dependencies": {
        "ms": "2.0.0"
      }
    },
    "node_modules/body-parser/node_modules/ms": {
      "version": "2.0.0",
      "resolved": "https://registry.npmjs.org/ms/-/ms-2.0.0.tgz",
      "integrity":
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      "license": "MIT"
    }
  }

```



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    },
    "node_modules/brace-expansion": {
      "version": "1.1.12",
      "resolved": "https://registry.npmjs.org/brace-expansion/-/brace-expansion-1.1.12.tgz",
      "integrity":
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      "dev": true,
      "license": "MIT",
      "dependencies": {
        "balanced-match": "^1.0.0",
        "concat-map": "0.0.1"
      }
    },
    "node_modules/braces": {
      "version": "3.0.3",
      "resolved": "https://registry.npmjs.org/braces/-/braces-3.0.3.tgz",
      "integrity":
"sha512-yQbXxg0O/SZVD2IsiLlro+7Hf6Ql8EJrKSEsdoMzKePKXct3gvD8oLcOQdIzGupr5Fj+EDe8gO/lxclBzfMpxvA==",
      "dev": true,
      "license": "MIT",
      "dependencies": {
        "fill-range": "^7.1.1"
      },
      "engines": {
        "node": ">=8"
      }
    },
    "node_modules/buffer-equal-constant-time": {
      "version": "1.0.1",
      "resolved":
"https://registry.npmjs.org/buffer-equal-constant-time/-/buffer-equal-constant-time-1.0.1.tgz",
      "integrity":
"sha512-zRPOaEb36IEXPBG8381eVOUwJ1nLQqEbnZzW0uSIzvwR6Ufks306hbHhDnXwEcK5T/f10n1BVq7P34kGG8==",
      "license": "BSD-3-Clause"
    },
    "node_modules/bytes": {
      "version": "3.1.2",
      "resolved": "https://registry.npmjs.org/bytes/-/bytes-3.1.2.tgz",
      "integrity":
"sha512-/v1++4uY6T5fLHR/x7GtVt8eZr9EG6q8FKyJ+EPz+7/7d9tlU3YbKdL95UdJhKIbTWMhZKsxYzQ8MkMnQ=="
    },
    "node_modules/call-bind-apply-helpers": {
      "version": "1.0.2",
      "resolved": "https://registry.npmjs.org/call-bind-apply-helpers/-/call-bind-apply-helpers-1.0.2.tgz",
      "integrity":
"sha512-+o6XCN6V0ndG1i6NzGn/Ecj/fLjRFRG3mJ02eXkZtZjNp1kLfM2ZkdyFjz1Rc+HMDNxXUf5aR1jH2L5Uig=="
    },
    "node_modules/es-errors": {
      "version": "1.3.0",
      "resolved": "https://registry.npmjs.org/es-errors/-/es-errors-1.3.0.tgz",
      "integrity":
"sha512-U3W8d89qC0QbI3Ln5zH8D18Hz3Gw264DkZp31iFJ4NlEz5S+P5YXWvXX593jZgn1UxeW0wY20i7aYg=="
    },
    "node_modules/function-bind": {
      "version": "1.1.2",
      "resolved": "https://registry.npmjs.org/function-bind/-/function-bind-1.1.2.tgz",
      "integrity":
"sha512-7XGxXpImtcd+MxcAaK1VxH4Wkb6NbmC/h+LwhSOaRo5jP7r7XbE6PZ6U5M3IQzaWVzi2pI6GhUeq3w6G8A=="
    },
    "node_modules/call-bound": {
      "version": "1.0.4",
      "resolved": "https://registry.npmjs.org/call-bound/-/call-bound-1.0.4.tgz",
      "integrity":
"sha512-+cu1ly4WzQQY3GSDfNDQnUXVsTz+IsVz9A3B+GUA/HbUm9rmXf0Mqr7MHQVrWuzF1MiMtWZS4aX0z4vDzrXQ=="
    },
    "node_modules/ys": {
      "version": "997096po4Kx/ABpBCqhA9EuxJaQWDQg7295H4hBphv3IZg0boBKuwYpt4YXp6MZ5AmZQnU/tyMTlRpaSejg==",
      "license": "MIT",
      "dependencies": {

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    "call-bind-apply-helpers": "^1.0.2",
    "get-intrinsic": "^1.3.0"
  },
  "engines": {
    "node": ">= 0.4"
  },
  "funding": {
    "url": "https://github.com/sponsors/ljharb"
  }
},
"node_modules/chokidar": {
  "version": "3.6.0",
  "resolved": "https://registry.npmjs.org/chokidar/-/chokidar-3.6.0.tgz",
  "integrity":
"sha512-7VTl3fmjotKpGipCW9JEQAuseEPE+Ei8nl6/g4FBAmIm0GOOLMua9NDDo/DWp0ZAxCr3cPq5ZpBqmPAQgDda2Pw==",
  "dev": true,
  "license": "MIT",
  "dependencies": {
    "anymatch": "~3.1.2",
    "braces": "~3.0.2",
    "glob-parent": "~5.1.2",
    "is-binary-path": "~2.1.0",
    "is-glob": "~4.0.1",
    "normalize-path": "~3.0.0",
    "readdirp": "~3.6.0"
  },
  "engines": {
    "node": ">= 8.10.0"
  },
  "funding": {
    "url": "https://paulmillr.com/funding/"
  },
  "optionalDependencies": {
    "fsevents": "~2.3.2"
  }
},
"node_modules/concat-map": {
  "version": "0.0.1",
  "resolved": "https://registry.npmjs.org/concat-map/-/concat-map-0.0.1.tgz",
  "integrity":
"sha512-/Sr4dsWYQNBfohgPz9o6Yb3Gz3SrUDqBH5rTuhGR7ahtlbyKnVxw2bCFMRljA7EXHaXZ8wsHdodFvbkhKmqg==",
  "dev": true,
  "license": "MIT"
},
"node_modules/content-disposition": {
  "version": "0.5.4",
  "resolved": "https://registry.npmjs.org/content-disposition/-/content-disposition-0.5.4.tgz",
  "integrity":
"sha512-FveZTNuGw04cxlAiWbzi6zTAL/lhehaWbTtgluJh4/E95DqMwTmha3KZNlaAWA8cFIhHzMZUvLevkw5Rqk+tSQ==",
  "license": "MIT",
  "dependencies": {
    "safe-buffer": "5.2.1"
  },
  "engines": {
    "node": ">= 0.6"
  }
},
"node_modules/content-type": {
  "version": "1.0.5",
  "resolved": "https://registry.npmjs.org/content-type/-/content-type-1.0.5.tgz",
  "integrity":
"sha512-FvkeU62o8jG133d17l7K4z4oM+oR57PmkYh1pKE56UgEAYTCW3Y55LSTeK4TcIStclgyH92dP+tlWEXI==",
  "license": "MIT",
  "engines": {
    "node": ">= 0.6"
  }
}

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    },
    "node_modules/cookie": {
      "version": "0.7.1",
      "resolved": "https://registry.npmjs.org/cookie/-/cookie-0.7.1.tgz",
      "integrity":
"sha512-6DnInpx7SJ2AK3+CTUE/ZM0vWTUboZCegxhC2xiIydHR9jNuTAASBrfEpHhiGOZw/nX51bHt6YQl8jsGo4y/0w==",
      "license": "MIT",
      "engines": {
        "node": ">= 0.6"
      }
    },
    "node_modules/cookie-signature": {
      "version": "1.0.6",
      "resolved": "https://registry.npmjs.org/cookie-signature/-/cookie-signature-1.0.6.tgz",
      "integrity":
"sha512-QADzlaHc8icV8I7vbaJXJwod9HWYp8uCqf1xa4OfNulT7JVxQIrUgOWtHdNDtPiywmFbiS12VjotIXLrKM3orQ==",
      "license": "MIT"
    },
    "node_modules/cors": {
      "version": "2.8.5",
      "resolved": "https://registry.npmjs.org/cors/-/cors-2.8.5.tgz",
      "integrity":
"sha512-KIHbLJqu73RGr/hnbr09uBeixNGuvSQjul/jdFvS/KFSIHlhWVdIng7zOHx+YrEfInLG7q4n6GHQ9cDtxv/P6g==",
      "license": "MIT",
      "dependencies": {
        "object-assign": "^4",
        "vary": "^1"
      },
      "engines": {
        "node": ">= 0.10"
      }
    },
    "node_modules/create-require": {
      "version": "1.1.1",
      "resolved": "https://registry.npmjs.org/create-require/-/create-require-1.1.1.tgz",
      "integrity":
"sha512-dcKFx3jn0MpIaXjisoRvexIJVEKzaq7z2rZKxf+MSr9TkdmHmsU4m2lcLojrj/FHl8mk5VxMmYA+ftRkP/3oKQ==",
      "dev": true,
      "license": "MIT"
    },
    "node_modules/debug": {
      "version": "4.4.1",
      "resolved": "https://registry.npmjs.org/debug/-/debug-4.4.1.tgz",
      "integrity":
"sha512-KcKCqiftBJcZr++7ykoDIEwSa3XWowTfNPo92BYxjXiyYEVrUQh2aLyhxBcwww+heortUFxEJYcRzosstTEBYQ==",
      "dev": true,
      "license": "MIT",
      "dependencies": {
        "ms": "^2.1.3"
      },
      "engines": {
        "node": ">=6.0"
      },
      "peerDependenciesMeta": {
        "supports-color": {
          "optional": true
        }
      }
    },
    "node_modules/denque": {
      "version": "2.1.0",
      "resolved": "https://registry.npmjs.org/denque/-/denque-2.1.0.tgz",
      "integrity":
"sha512-HvE1U78Z881F01381eKG0773d3b0FfD18j9jLgHPeW01w1P1589uMm20qo3CSd02/3Pjzhj1e3Yw==",
      "license": "Apache-2.0",
      "engines": {

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    "node": ">=0.10"
  },
  "node_modules/depd": {
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    "resolved": "https://registry.npmjs.org/depd/-/depd-2.0.0.tgz",
    "integrity":
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    "license": "MIT",
    "engines": {
      "node": ">= 0.8"
    }
  },
  "node_modules/destroy": {
    "version": "1.2.0",
    "resolved": "https://registry.npmjs.org/destroy/-/destroy-1.2.0.tgz",
    "integrity":
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    "license": "MIT",
    "engines": {
      "node": ">= 0.8",
      "npm": "1.2.8000 || >= 1.4.16"
    }
  },
  "node_modules/diff": {
    "version": "4.0.2",
    "resolved": "https://registry.npmjs.org/diff/-/diff-4.0.2.tgz",
    "integrity":
"sha512-58l143pX9p0Rt3zrfjFIhNOXEaPBNv17CJqtspnmgPrF2A2gUg8nuR7uKPDKgptbhC7u9WDEdP54zWUd+RCQ==",
    "dev": true,
    "license": "BSD-3-Clause",
    "engines": {
      "node": ">=0.3.1"
    }
  },
  "node_modules/dotenv": {
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    "resolved": "https://registry.npmjs.org/dotenv/-/dotenv-16.5.0.tgz",
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    "license": "BSD-2-Clause",
    "engines": {
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    },
    "funding": {
      "url": "https://dotenvx.com"
    }
  },
  "node_modules/dunder-proto": {
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    "resolved": "https://registry.npmjs.org/dunder-proto/-/dunder-proto-1.0.1.tgz",
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    "license": "MIT",
    "dependencies": {
      "call-bind-apply-helpers": "^1.0.1",
      "es-errors": "^1.3.0",
      "gopd": "^1.2.0"
    },
    "engines": {
      "node": ">= 0.4"
    }
  },
  "node_modules/ecdsa-sig-formatter": {
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    "resolved": "https://registry.npmjs.org/ecdsa-sig-formatter/-/ecdsa-sig-formatter-1.0.11.tgz",

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  "dependencies": {
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  "license": "MIT"
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  "license": "MIT",
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  "engines": {
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  }
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  "license": "MIT",
  "engines": {
    "node": ">= 0.4"
  }
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  "engines": {
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  "license": "MIT"
},
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  "version": "1.8.1",

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"license": "MIT",
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},
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  "version": "4.21.2",
  "resolved": "https://registry.npmjs.org/express/-/express-4.21.2.tgz",
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  "license": "MIT",
  "dependencies": {
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    "array-flatten": "1.1.1",
    "body-parser": "1.20.3",
    "content-disposition": "0.5.4",
    "content-type": "~1.0.4",
    "cookie": "0.7.1",
    "cookie-signature": "1.0.6",
    "debug": "2.6.9",
    "depd": "2.0.0",
    "encodeurl": "~2.0.0",
    "escape-html": "~1.0.3",
    "etag": "~1.8.1",
    "finalhandler": "1.3.1",
    "fresh": "0.5.2",
    "http-errors": "2.0.0",
    "merge-descriptors": "1.0.3",
    "methods": "~1.1.2",
    "on-finished": "2.4.1",
    "parseurl": "~1.3.3",
    "path-to-regexp": "0.1.12",
    "proxy-addr": "~2.0.7",
    "qs": "6.13.0",
    "range-parser": "~1.2.1",
    "safe-buffer": "5.2.1",
    "send": "0.19.0",
    "serve-static": "1.16.2",
    "setprototypeof": "1.2.0",
    "statuses": "2.0.1",
    "type-is": "~1.6.18",
    "utils-merge": "1.0.1",
    "vary": "~1.1.2"
  },
  "engines": {
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  },
  "funding": {
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    "url": "https://opencollective.com/express"
  },
  "node_modules/express-rate-limit": {
    "version": "7.5.1",
    "resolved": "https://registry.npmjs.org/express-rate-limit/-/express-rate-limit-7.5.1.tgz",
    "integrity":
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    "license": "MIT",
    "engines": {
      "node": ">= 16"
    },
    "funding": {
      "url": "https://github.com/sponsors/express-rate-limit"
    }
  }
}
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    "peerDependencies": {
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    }
  },
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    "dependencies": {
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    }
  },
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    "resolved": "https://registry.npmjs.org/ms/-/ms-2.0.0.tgz",
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    "license": "MIT"
  },
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    "resolved": "https://registry.npmjs.org/fill-range/-/fill-range-7.1.1.tgz",
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    "license": "MIT",
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    "engines": {
      "node": ">=8"
    }
  },
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    "dependencies": {
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      "escape-html": "~1.0.3",
      "on-finished": "2.4.1",
      "parseurl": "~1.3.3",
      "statuses": "2.0.1",
      "unpipe": "~1.0.0"
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"license": "MIT",
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],
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}
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"license": "MIT",
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}
},
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  "license": "MIT",
  "dependencies": {
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    "es-define-property": "^1.0.1",
    "es-errors": "^1.3.0",
    "es-object-atoms": "^1.1.1",
    "function-bind": "^1.1.2",
    "get-proto": "^1.0.1",
    "gopd": "^1.2.0",
    "has-symbols": "^1.1.0",
    "hasown": "^2.0.2",
    "math-intrinsics": "^1.1.0"
  },
  "engines": {
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  },
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    "url": "https://github.com/sponsors/ljharb"
  }
},
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    "es-object-atoms": "^1.0.0"
  },
  "engines": {
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  "dev": true,
  "license": "ISC",
  "dependencies": {
    "is-glob": "^4.0.1"
  },
  "engines": {
    "node": ">= 6"
  }
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  "license": "MIT",
  "engines": {
    "node": ">= 0.4"
  },
  "funding": {
    "url": "https://github.com/sponsors/ljharb"
  }
},
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  "version": "3.0.0",
  "resolved": "https://registry.npmjs.org/has-flag/-/has-flag-3.0.0.tgz",
  "integrity":
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  "license": "MIT",
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  "resolved": "https://registry.npmjs.org/has-symbols/-/has-symbols-1.1.0.tgz",
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  "license": "MIT",
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  },
  "funding": {
    "url": "https://github.com/sponsors/ljharb"
  }
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  "license": "MIT",
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  "resolved": "https://registry.npmjs.org/http-errors/-/http-errors-2.0.0.tgz",
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  "license": "MIT",
  "dependencies": {
    "depd": "2.0.0",
    "inherits": "2.0.4",
    "setprototypeof": "1.2.0",
    "statuses": "2.0.1",
    "toidentifier": "1.0.1"
  },
  "engines": {
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  }
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  "resolved": "https://registry.npmjs.org/iconv-lite/-/iconv-lite-0.4.24.tgz",
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  "license": "MIT",
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      "safer-buffer": ">= 2.1.2 < 3"
    },
    "engines": {
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    }
  },
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    "resolved": "https://registry.npmjs.org/ipaddr.js/-/ipaddr.js-1.9.1.tgz",
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    "license": "MIT",
    "engines": {
      "node": ">= 0.10"
    }
  },
  "node_modules/is-binary-path": {
    "version": "2.1.0",
    "resolved": "https://registry.npmjs.org/is-binary-path/-/is-binary-path-2.1.0.tgz",
    "integrity":
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    "dev": true,
    "license": "MIT",
    "dependencies": {
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    "engines": {
      "node": ">=8"
    }
  },
  "node_modules/is-extglob": {
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    "resolved": "https://registry.npmjs.org/is-extglob/-/is-extglob-2.1.1.tgz",
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    "license": "MIT",
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    "license": "MIT",
    "dependencies": {
      "is-extglob": "^2.1.1"
    }
  }
```

```

    },
    "engines": {
      "node": ">=0.10.0"
    }
  },
  "node_modules/is-number": {
    "version": "7.0.0",
    "resolved": "https://registry.npmjs.org/is-number/-/is-number-7.0.0.tgz",
    "integrity":
"sha512-41Cifkg6e8TylSpdtTpeLVMqvSBEVzTttHvERD741+pnZ8ANv0004MRL43QKPD1K9cGvNp6NZWZUBlbGXYxxng==",
    "dev": true,
    "license": "MIT",
    "engines": {
      "node": ">=0.12.0"
    }
  },
  "node_modules/is-property": {
    "version": "1.0.2",
    "resolved": "https://registry.npmjs.org/is-property/-/is-property-1.0.2.tgz",
    "integrity":
"sha512-KsLfJpncW47M4C1Y048i86Tj87G68N0Y8G24H9N6Y5C6WpE8m1f9jSv6WChgH/+st90JSlHNoJFwtg==",
    "license": "MIT"
  },
  "node_modules/jsonwebtoken": {
    "version": "9.0.2",
    "resolved": "https://registry.npmjs.org/jsonwebtoken/-/jsonwebtoken-9.0.2.tgz",
    "integrity":
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    "license": "MIT",
    "dependencies": {
      "jws": "^3.2.2",
      "lodash.includes": "^4.3.0",
      "lodash.isboolean": "^3.0.3",
      "lodash.isinteger": "^4.0.4",
      "lodash.isnumber": "^3.0.3",
      "lodash.isplainobject": "^4.0.6",
      "lodash.isstring": "^4.0.1",
      "lodash.once": "^4.0.0",
      "ms": "^2.1.1",
      "semver": "^7.5.4"
    },
    "engines": {
      "node": ">=12",
      "npm": ">=6"
    }
  },
  "node_modules/jwa": {
    "version": "1.4.2",
    "resolved": "https://registry.npmjs.org/jwa/-/jwa-1.4.2.tgz",
    "integrity":
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    "license": "MIT",
    "dependencies": {
      "buffer-equal-constant-time": "^1.0.1",
      "ecdsa-sig-formatter": "1.0.11",
      "safe-buffer": "^5.0.1"
    }
  },
  "node_modules/jws": {
    "version": "3.2.2",
    "resolved": "https://registry.npmjs.org/jws/-/jws-3.2.2.tgz",
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    "license": "MIT",
    "dependencies": {
      "jwa": "^1.4.1",

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    "safe-buffer": "^5.0.1"
  },
  "node_modules/lodash.includes": {
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  },
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    "resolved": "https://registry.npmjs.org/lodash.isboolean/-/lodash.isboolean-3.0.3.tgz",
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    "license": "MIT"
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  "node_modules/lodash.isinteger": {
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    "resolved": "https://registry.npmjs.org/lodash.isinteger/-/lodash.isinteger-4.0.4.tgz",
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    "license": "MIT"
  },
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    "license": "MIT"
  },
  "node_modules/lodash.isplainobject": {
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    "resolved": "https://registry.npmjs.org/lodash.isplainobject/-/lodash.isplainobject-4.0.6.tgz",
    "integrity":
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    "license": "MIT"
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    "resolved": "https://registry.npmjs.org/lodash.isstring/-/lodash.isstring-4.0.1.tgz",
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    "license": "MIT"
  },
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    "resolved": "https://registry.npmjs.org/lodash.once/-/lodash.once-4.1.1.tgz",
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    "license": "MIT"
  },
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    "resolved": "https://registry.npmjs.org/long/-/long-5.3.2.tgz",
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    "license": "Apache-2.0"
  },
  "node_modules/lru-cache": {
    "version": "7.18.3",
    "resolved": "https://registry.npmjs.org/lru-cache/-/lru-cache-7.18.3.tgz",
    "integrity":
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    "license": "ISC",
    "engines": {

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  },
  "node_modules/lru.min": {
    "version": "1.1.2",
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    "license": "MIT",
    "engines": {
      "bun": ">=1.0.0",
      "deno": ">=1.30.0",
      "node": ">=8.0.0"
    },
    "funding": {
      "type": "github",
      "url": "https://github.com/sponsors/wellwelwel"
    }
  },
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    "resolved": "https://registry.npmjs.org/make-error/-/make-error-1.3.6.tgz",
    "integrity":
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    "dev": true,
    "license": "ISC"
  },
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    "resolved": "https://registry.npmjs.org/math-intrinsics/-/math-intrinsics-1.1.0.tgz",
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    "license": "MIT",
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    }
  },
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    "resolved": "https://registry.npmjs.org/media-typer/-/media-typer-0.3.0.tgz",
    "integrity":
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    "license": "MIT",
    "engines": {
      "node": ">= 0.6"
    }
  },
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    "version": "1.0.3",
    "resolved": "https://registry.npmjs.org/merge-descriptors/-/merge-descriptors-1.0.3.tgz",
    "integrity":
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    "license": "MIT",
    "engines": {
      "node": ">= 0.6"
    }
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  "node_modules/methods": {
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    "resolved": "https://registry.npmjs.org/methods/-/methods-1.1.2.tgz",
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    "license": "MIT",
    "engines": {
      "node": ">= 0.6"
    }
  },

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```

    },
    "node_modules/mime": {
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      "resolved": "https://registry.npmjs.org/mime/-/mime-1.6.0.tgz",
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      "license": "MIT",
      "bin": {
        "mime": "cli.js"
      },
      "engines": {
        "node": ">=4"
      }
    },
    "node_modules/mime-db": {
      "version": "1.52.0",
      "resolved": "https://registry.npmjs.org/mime-db/-/mime-db-1.52.0.tgz",
      "integrity":
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      "license": "MIT",
      "engines": {
        "node": ">= 0.6"
      }
    },
    "node_modules/mime-types": {
      "version": "2.1.35",
      "resolved": "https://registry.npmjs.org/mime-types/-/mime-types-2.1.35.tgz",
      "integrity":
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      "license": "MIT",
      "dependencies": {
        "mime-db": "1.52.0"
      },
      "engines": {
        "node": ">= 0.6"
      }
    },
    "node_modules/minimatch": {
      "version": "3.1.2",
      "resolved": "https://registry.npmjs.org/minimatch/-/minimatch-3.1.2.tgz",
      "integrity":
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      "dev": true,
      "license": "ISC",
      "dependencies": {
        "brace-expansion": "^1.1.7"
      },
      "engines": {
        "node": "*"
      }
    },
    "node_modules/ms": {
      "version": "2.1.3",
      "resolved": "https://registry.npmjs.org/ms/-/ms-2.1.3.tgz",
      "integrity":
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      "license": "MIT"
    },
    "node_modules/mysql2": {
      "version": "3.14.1",
      "resolved": "https://registry.npmjs.org/mysql2/-/mysql2-3.14.1.tgz",
      "integrity":
"sha512-7ytuPQJjQB8TNAYX/H2yhL+iQOnIBjAMam361R7UAL0LOVXWjtdrmoL9HYKqKoLp/8UUTRcvo1QPvK9KL7wA8w==",
      "license": "MIT",
      "dependencies": {
        "aws-ssl-profiles": "^1.1.1",

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    "denque": "^2.1.0",
    "generate-function": "^2.3.1",
    "iconv-lite": "^0.6.3",
    "long": "^5.2.1",
    "lru.min": "^1.0.0",
    "named-placeholders": "^1.1.3",
    "seq-queue": "^0.0.5",
    "sqlstring": "^2.3.2"
  },
  "engines": {
    "node": ">= 8.0"
  }
},
"node_modules/mysql2/node_modules/iconv-lite": {
  "version": "0.6.3",
  "resolved": "https://registry.npmjs.org/iconv-lite/-/iconv-lite-0.6.3.tgz",
  "integrity":
"sha512-4fCk79wshMdzMp2rH06qWrJE4iolqLhCUH+OiuIgU++RB0+94N1DL8latO7GX55uUKueo0txHNTvEyI6D7WdMw==",
  "license": "MIT",
  "dependencies": {
    "safer-buffer": ">= 2.1.2 < 3.0.0"
  },
  "engines": {
    "node": ">=0.10.0"
  }
},
"node_modules/named-placeholders": {
  "version": "1.1.3",
  "resolved": "https://registry.npmjs.org/named-placeholders/-/named-placeholders-1.1.3.tgz",
  "integrity":
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  "license": "MIT",
  "dependencies": {
    "lru-cache": "^7.14.1"
  },
  "engines": {
    "node": ">=12.0.0"
  }
},
"node_modules/negotiator": {
  "version": "0.6.3",
  "resolved": "https://registry.npmjs.org/negotiator/-/negotiator-0.6.3.tgz",
  "integrity":
"sha512-eUSqGPLsM+j/zdChZjsnX5lg4XrHFOIXwfnCVPglQk/k5giakcKsuxCObBRu6DSm9opw/O6slWbJdghQM4bBg==",
  "license": "MIT",
  "engines": {
    "node": ">= 0.6"
  }
},
"node_modules/nodemon": {
  "version": "3.1.10",
  "resolved": "https://registry.npmjs.org/nodemon/-/nodemon-3.1.10.tgz",
  "integrity":
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  "dev": true,
  "license": "MIT",
  "dependencies": {
    "chokidar": "^3.5.2",
    "debug": "^4",
    "ignore-by-default": "^1.0.1",
    "minimatch": "^3.1.2",
    "pstree.remy": "^1.1.8",
    "semver": "^7.5.3",
    "simple-update-notifier": "^2.0.0",
    "supports-color": "^5.5.0",
    "touch": "^3.1.0",

```



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    "undefsafe": "^2.0.5"
  },
  "bin": {
    "nodemon": "bin/nodemon.js"
  },
  "engines": {
    "node": ">=10"
  },
  "funding": {
    "type": "opencollective",
    "url": "https://opencollective.com/nodemon"
  }
},
"node_modules/normalize-path": {
  "version": "3.0.0",
  "resolved": "https://registry.npmjs.org/normalize-path/-/normalize-path-3.0.0.tgz",
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  "dev": true,
  "license": "MIT",
  "engines": {
    "node": ">=0.10.0"
  }
},
"node_modules/object-assign": {
  "version": "4.1.1",
  "resolved": "https://registry.npmjs.org/object-assign/-/object-assign-4.1.1.tgz",
  "integrity":
"sha512-rJiaS0imUr5XZBzXxQU+Q1qf5eFDyS/TAaBDbxrhNAPjLRbrIeB178T859FBdqYvWkI2lXn896RiSqIYw==",
  "license": "MIT",
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    "node": ">=0.10.0"
  }
},
"node_modules/object-inspect": {
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  "resolved": "https://registry.npmjs.org/object-inspect/-/object-inspect-1.13.4.tgz",
  "integrity":
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  "license": "MIT",
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    "node": ">= 0.4"
  },
  "funding": {
    "url": "https://github.com/sponsors/ljharb"
  }
},
"node_modules/on-finished": {
  "version": "2.4.1",
  "resolved": "https://registry.npmjs.org/on-finished/-/on-finished-2.4.1.tgz",
  "integrity":
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  "dependencies": {
    "ee-first": "1.1.1"
  },
  "engines": {
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  }
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  "resolved": "https://registry.npmjs.org/parseurl/-/parseurl-1.3.3.tgz",
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  "license": "MIT",

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    }
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    "integrity":
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    "license": "MIT"
  },
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    "resolved": "https://registry.npmjs.org/picomatch/-/picomatch-2.3.1.tgz",
    "integrity":
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    "license": "MIT",
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    }
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    "resolved": "https://registry.npmjs.org/proxy-addr/-/proxy-addr-2.0.7.tgz",
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    "license": "MIT",
    "dependencies": {
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      "ipaddr.js": "1.9.1"
    },
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    }
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    "resolved": "https://registry.npmjs.org/pstree.remy/-/pstree.remy-1.1.8.tgz",
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    "license": "MIT"
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    "version": "6.13.0",
    "resolved": "https://registry.npmjs.org/qs/-/qs-6.13.0.tgz",
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    "license": "BSD-3-Clause",
    "dependencies": {
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    },
    "engines": {
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    "funding": {
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    }
  },
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    "resolved": "https://registry.npmjs.org/range-parser/-/range-parser-1.2.1.tgz",
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"integrity":
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  "license": "MIT",
  "engines": {
    "node": ">= 0.6"
  }
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"node_modules/raw-body": {
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  "integrity":
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  "license": "MIT",
  "dependencies": {
    "bytes": "3.1.2",
    "http-errors": "2.0.0",
    "iconv-lite": "0.4.24",
    "unpipe": "1.0.0"
  },
  "engines": {
    "node": ">= 0.8"
  }
},
"node_modules/readdirp": {
  "version": "3.6.0",
  "resolved": "https://registry.npmjs.org/readirp/-/readirp-3.6.0.tgz",
  "integrity":
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  "dev": true,
  "license": "MIT",
  "dependencies": {
    "picomatch": "^2.2.1"
  },
  "engines": {
    "node": ">=8.10.0"
  }
},
"node_modules/safe-buffer": {
  "version": "5.2.1",
  "resolved": "https://registry.npmjs.org/safe-buffer/-/safe-buffer-5.2.1.tgz",
  "integrity":
"sha512-rp3So07KcdmmKbGvgaNxQJSjr7bGVSVk5S9Eq1F+ppbRo70+YeaDxkw5Dd8NPN+GD6bjnYm2VuPuCXmpuYvmCXQ==",
  "funding": [
    {
      "type": "github",
      "url": "https://github.com/sponsors/feross"
    },
    {
      "type": "patreon",
      "url": "https://www.patreon.com/feross"
    },
    {
      "type": "consulting",
      "url": "https://feross.org/support"
    }
  ],
  "license": "MIT"
},
"node_modules/safer-buffer": {
  "version": "2.1.2",
  "resolved": "https://registry.npmjs.org/safer-buffer/-/safer-buffer-2.1.2.tgz",
  "integrity":
"sha512-YZo3K82SD7Riyi0E1EQPojLz7kpepnSQI9IyPbHHgl1XXXevb5dJI7tpyN2ADxGcQbHG7vcyRHk0cbwqcQriUtg==",
  "license": "MIT"
},
"node_modules/semver": {

```

```

    "version": "7.7.2",
    "resolved": "https://registry.npmjs.org/semver/-/semver-7.7.2.tgz",
    "integrity":
"sha512-RF0Fw+rO5AMf9MAyARXl4AV0Ulj5lMHqVxxdSgiVbixSCXoEmmX/jk0CuJw4+3SgroY09VoUh+HcuJivvtJemA==",
    "license": "ISC",
    "bin": {
      "semver": "bin/semver.js"
    },
    "engines": {
      "node": ">=10"
    }
  },
  "node_modules/send": {
    "version": "0.19.0",
    "resolved": "https://registry.npmjs.org/send/-/send-0.19.0.tgz",
    "integrity":
"sha512-dW44u5VfLXu8SjH5bwRmyYUbaOSB3c9uQh6L8h/KtsFREPWpbX1lrljJo186Jc4nmci/sGUZ9a0a0J2zgfq2hw==",
    "license": "MIT",
    "dependencies": {
      "debug": "2.6.9",
      "depd": "2.0.0",
      "destroy": "1.2.0",
      "encodeurl": "~1.0.2",
      "escape-html": "~1.0.3",
      "etag": "~1.8.1",
      "fresh": "0.5.2",
      "http-errors": "2.0.0",
      "mime": "1.6.0",
      "ms": "2.1.3",
      "on-finished": "2.4.1",
      "range-parser": "~1.2.1",
      "statuses": "2.0.1"
    },
    "engines": {
      "node": ">= 0.8.0"
    }
  },
  "node_modules/send/node_modules/debug": {
    "version": "2.6.9",
    "resolved": "https://registry.npmjs.org/debug/-/debug-2.6.9.tgz",
    "integrity":
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    "license": "MIT",
    "dependencies": {
      "ms": "2.0.0"
    }
  },
  "node_modules/send/node_modules/debug/node_modules/ms": {
    "version": "2.0.0",
    "resolved": "https://registry.npmjs.org/ms/-/ms-2.0.0.tgz",
    "integrity":
"sha512-Tpp60P6IUJDTuOq/5Z8cdskzJuJfwqfOTkrwIwj7IRISpnkJnT6SyJ4PCPnGMOFjC9ddhal5KVIYtAt97ix05A==",
    "license": "MIT"
  },
  "node_modules/send/node_modules/encodeurl": {
    "version": "1.0.2",
    "resolved": "https://registry.npmjs.org/encodeurl/-/encodeurl-1.0.2.tgz",
    "integrity":
"sha512-RktYUrd+qywGt2nWRjYTqAFaG9W54rJZnhnKV6WMFo7zpfKLhfP1bhVIroddpi5nG87UwfwcGP7IwUn4g7/pw==",
    "license": "MIT",
    "engines": {
      "node": ">= 0.8"
    }
  },
  "node_modules/seq-queue": {
    "version": "0.0.5",

```

```

    "resolved": "https://registry.npmjs.org/seq-queue/-/seq-queue-0.0.5.tgz",
    "integrity":
"sha512-hr3Wtp/GZIC/6DAGPDcV4/9WoZhjrkXsi5B/07QgX8tsdc6ilr7BFM6PM6rbdAX1kFSDYeZGLipIZZKyQP005Q=="
  },
  "node_modules/serve-static": {
    "version": "1.16.2",
    "resolved": "https://registry.npmjs.org/serve-static/-/serve-static-1.16.2.tgz",
    "integrity":
"sha512-VqpjJZKadQB/PEbEwFdd043Ax5dFBZ2UECszz8bQ7pi7wt//PwElP6MN7eCnjsatYtBT6EuiClbjSWP2WrIoTw==",
    "license": "MIT",
    "dependencies": {
      "encodeurl": "~2.0.0",
      "escape-html": "~1.0.3",
      "parseurl": "~1.3.3",
      "send": "0.19.0"
    },
    "engines": {
      "node": ">= 0.8.0"
    }
  },
  "node_modules/setprototypeof": {
    "version": "1.2.0",
    "resolved": "https://registry.npmjs.org/setprototypeof/-/setprototypeof-1.2.0.tgz",
    "integrity":
"sha512-E5LDX7Wrp85Kil5bhZv46j8jOeboKq5JMmYM3gVGdGH8xFpPWXUMsNr1ODCrkoxMEeNi/XZIWuRvY4XNwYmJpw==",
    "license": "ISC"
  },
  "node_modules/side-channel": {
    "version": "1.1.0",
    "resolved": "https://registry.npmjs.org/side-channel/-/side-channel-1.1.0.tgz",
    "integrity":
"sha512-ZX99e6tRweoUXqR+VBrslhda51Nh5MTQwou5tnUDgbtyM0dBgmhEDtWGP/xbKn6hqfPRHuJUNwz5fy/wbbhnpw==",
    "license": "MIT",
    "dependencies": {
      "es-errors": "^1.3.0",
      "object-inspect": "^1.13.3",
      "side-channel-list": "^1.0.0",
      "side-channel-map": "^1.0.1",
      "side-channel-weakmap": "^1.0.2"
    },
    "engines": {
      "node": ">= 0.4"
    },
    "funding": {
      "url": "https://github.com/sponsors/ljharb"
    }
  },
  "node_modules/side-channel-list": {
    "version": "1.0.0",
    "resolved": "https://registry.npmjs.org/side-channel-list/-/side-channel-list-1.0.0.tgz",
    "integrity":
"sha512-FCLHtRD/gnpCiCHEiJLOWdmFP+wzCmDEkc9y7NsYxeF4u7BtsnlZuwgWJGxImImHicJARLP4R0yX4c2KCrMrTA==",
    "license": "MIT",
    "dependencies": {
      "es-errors": "^1.3.0",
      "object-inspect": "^1.13.3"
    },
    "engines": {
      "node": ">= 0.4"
    },
    "funding": {
      "url": "https://github.com/sponsors/ljharb"
    }
  },
  "node_modules/side-channel-map": {
    "version": "1.0.1",

```

```

    "resolved": "https://registry.npmjs.org/side-channel-map/-/side-channel-map-1.0.1.tgz",
    "integrity":
"sha512-VCjCNfgMsby3tTdo02nbjtM/ewra6jPHmpThenkTYh8pG9ucZ/1P8So4u4FGBek/BjpOVsDCMoLA/iuBKIFXRA==",
    "license": "MIT",
    "dependencies": {
      "call-bound": "^1.0.2",
      "es-errors": "^1.3.0",
      "get-intrinsic": "^1.2.5",
      "object-inspect": "^1.13.3"
    },
    "engines": {
      "node": ">= 0.4"
    },
    "funding": {
      "url": "https://github.com/sponsors/ljharb"
    }
  },
  "node_modules/side-channel-weakmap": {
    "version": "1.0.2",
    "resolved": "https://registry.npmjs.org/side-channel-weakmap/-/side-channel-weakmap-1.0.2.tgz",
    "integrity":
"sha512-WPS/HvHQTYnHisLo9McqBHOJk2FkHO/tlpvldyrnem4aeQp4hai3gythswg6p0loSoTl58rcpiFAjF2br2Ak2A==",
    "license": "MIT",
    "dependencies": {
      "call-bound": "^1.0.2",
      "es-errors": "^1.3.0",
      "get-intrinsic": "^1.2.5",
      "object-inspect": "^1.13.3",
      "side-channel-map": "^1.0.1"
    },
    "engines": {
      "node": ">= 0.4"
    },
    "funding": {
      "url": "https://github.com/sponsors/ljharb"
    }
  },
  "node_modules/simple-update-notifier": {
    "version": "2.0.0",
    "resolved": "https://registry.npmjs.org/simple-update-notifier/-/simple-update-notifier-2.0.0.tgz",
    "integrity":
"sha512-a2B9Y0KlNXl9u/vsW6sTIu9vGEpfKu2wRV6llH3XEas/0gUIzGzBoP/IouTcUQbm9JWZLH3COxyn03TYlFax6w==",
    "dev": true,
    "license": "MIT",
    "dependencies": {
      "semver": "^7.5.3"
    },
    "engines": {
      "node": ">=10"
    }
  },
  "node_modules/sqlstring": {
    "version": "2.3.3",
    "resolved": "https://registry.npmjs.org/sqlstring/-/sqlstring-2.3.3.tgz",
    "integrity":
"sha512-qC9iz2FlnN7DQl3+wjwn3802RTyjCx7sDvfQEXchwa6CWOx07/WVfh91gBmQ9fahw8snwGEWU3xGzOt4tFyHLxg==",
    "license": "MIT",
    "engines": {
      "node": ">= 0.6"
    }
  },
  "node_modules/statuses": {
    "version": "2.0.1",
    "resolved": "https://registry.npmjs.org/statuses/-/statuses-2.0.1.tgz",
    "integrity":
"sha512-RwNA9Z/7PrK06rYLIzFMlaF+l73iwpzsqRIFgbMLTcLD6cOao82TaWefPXQvB2fOC4AjuYSEndS7N/mTCbkdQ==",

```

```
    "license": "MIT",
    "engines": {
      "node": ">= 0.8"
    }
  },
  "node_modules/supports-color": {
    "version": "5.5.0",
    "resolved": "https://registry.npmjs.org/supports-color/-/supports-color-5.5.0.tgz",
    "integrity":
"sha512-QjVjwdXIt408MIiAqCX4oUKsgU2EqAGzs2Ppkm4aQYbjm+ZWEWcW4SfFNTr4uMNZma0ey4f5lgLrkB0aX0QMow==",
    "dev": true,
    "license": "MIT",
    "dependencies": {
      "has-flag": "^3.0.0"
    },
    "engines": {
      "node": ">=4"
    }
  },
  "node_modules/to-regex-range": {
    "version": "5.0.1",
    "resolved": "https://registry.npmjs.org/to-regex-range/-/to-regex-range-5.0.1.tgz",
    "integrity":
"sha512-65P7iz6X5yErlcwcgvQxbbIw7Uk3gOy5dIdtZ4rDveLqhrdJP+Li/Hx6tyK0NEb+2GCyneCMJiGqrADCSNk8sQ==",
    "dev": true,
    "license": "MIT",
    "dependencies": {
      "is-number": "^7.0.0"
    },
    "engines": {
      "node": ">=8.0"
    }
  },
  "node_modules/toidentifier": {
    "version": "1.0.1",
    "resolved": "https://registry.npmjs.org/toidentifier/-/toidentifier-1.0.1.tgz",
    "integrity":
"sha512-o5sSPKEkg/DIQNmH43V0/uerLrpzVedkUh8tGNvaeXpfpuwjKenlSox/2O/BTlZUtEe+JG7s5YhEz608PlAHRA==",
    "license": "MIT",
    "engines": {
      "node": ">=0.6"
    }
  },
  "node_modules/touch": {
    "version": "3.1.1",
    "resolved": "https://registry.npmjs.org/touch/-/touch-3.1.1.tgz",
    "integrity":
"sha512-4wCFOuW1oGwz5NcLkgpZ5Uk888ZZU6bX3ZqQF6cjuB6N9VkefNTxH0Ubf5j3Z4p6K/B2iJIEUxSyXzw3UA==",
    "dev": true,
    "license": "ISC",
    "bin": {
      "nodetouch": "bin/nodetouch.js"
    }
  },
  "node_modules/ts-node": {
    "version": "10.9.2",
    "resolved": "https://registry.npmjs.org/ts-node/-/ts-node-10.9.2.tgz",
    "integrity":
"sha512-j3HvEuouaRkbV4Lq6/NWpWj69j4zR40QrT0eL8T0vW1230VpB5p8F3W1pX8pZU4Qd1012kDf1Uw8kYg==",
    "dev": true,
    "license": "MIT",
    "dependencies": {
      "@cspotcode/source-map-support": "^0.8.0",
      "@tsconfig/node10": "^1.0.7",
      "@tsconfig/node12": "^1.0.7",
      "@tsconfig/node14": "^1.0.0",

```

```

"@tsconfig/node16": "^1.0.2",
"acorn": "^8.4.1",
"acorn-walk": "^8.1.1",
"arg": "^4.1.0",
"create-require": "^1.1.0",
"diff": "^4.0.1",
"make-error": "^1.1.1",
"v8-compile-cache-lib": "^3.0.1",
"yn": "3.1.1"
},
"bin": {
  "ts-node": "dist/bin.js",
  "ts-node-cwd": "dist/bin-cwd.js",
  "ts-node-esm": "dist/bin-esm.js",
  "ts-node-script": "dist/bin-script.js",
  "ts-node-transpile-only": "dist/bin-transpile.js",
  "ts-script": "dist/bin-script-deprecated.js"
},
"peerDependencies": {
  "@swc/core": ">=1.2.50",
  "@swc/wasm": ">=1.2.50",
  "@types/node": "*",
  "typescript": ">=2.7"
},
"peerDependenciesMeta": {
  "@swc/core": {
    "optional": true
  },
  "@swc/wasm": {
    "optional": true
  }
}
},
"node_modules/type-is": {
  "version": "1.6.18",
  "resolved": "https://registry.npmjs.org/type-is/-/type-is-1.6.18.tgz",
  "integrity":
"sha512-TkKrR9sUTxeh8MdfuCSP7VizJyzRNMjj2J2do2Jr3Kym598JVdEksuzPQCnlFPW4ky9Q+iA+ma9BGm06XQBy8g==",
  "license": "MIT",
  "dependencies": {
    "media-typer": "0.3.0",
    "mime-types": "~2.1.24"
  },
  "engines": {
    "node": ">= 0.6"
  }
},
"node_modules/typescript": {
  "version": "5.8.3",
  "resolved": "https://registry.npmjs.org/typescript/-/typescript-5.8.3.tgz",
  "integrity":
"sha512-pldiW6TqL9L07nNxvRMM7hMMw4c5X0o/1libL4aAIGmSat9slTElXgw5KWuof2uTOvCg9BY7ZRi+GaF+7sfgPeQ==",
  "dev": true,
  "license": "Apache-2.0",
  "bin": {
    "tsc": "bin/tsc",
    "tsserver": "bin/tsserver"
  },
  "engines": {
    "node": ">=14.17"
  }
},
"node_modules/undefsafe": {
  "version": "2.0.5",
  "resolved": "https://registry.npmjs.org/undefsafe/-/undefsafe-2.0.5.tgz",
  "integrity":

```



```
"sha512-WxONCrssBM8TSPRqN5EmsjVrsv4A8Xl2J4ArBiiayv3DyyG3ZlIg6yysuuSYdZsVz3TKcTg2fd//Ujd4CHVliA==",
  "dev": true,
  "license": "MIT"
},
"node_modules/undici-types": {
  "version": "6.21.0",
  "resolved": "https://registry.npmjs.org/undici-types/-/undici-types-6.21.0.tgz",
  "integrity":
"sha512-iwDZqg0QAGrg9Rav5H4n0M64c3mkR59cJ6wQp+7C4nI0gsmExaedaYLN044eT4AtBBWjbTiGPMlt2Md0T9H9JQ==",
  "license": "MIT"
},
"node_modules/unpipe": {
  "version": "1.0.0",
  "resolved": "https://registry.npmjs.org/unpipe/-/unpipe-1.0.0.tgz",
  "integrity":
"sha512-pjy2bYhSsufwWlKwPc+l3cN7+wuJlK6uz0YdJE0lQDb16jo/YlPi4mb8agUkVC8BF7V8NuzeyPNqRksA3hztKQ==",
  "license": "MIT",
  "engines": {
    "node": ">= 0.8"
  }
},
"node_modules/utils-merge": {
  "version": "1.0.1",
  "resolved": "https://registry.npmjs.org/utils-merge/-/utils-merge-1.0.1.tgz",
  "integrity":
"sha512-pMZTvikTld+TFGvDOgodOclx0QWkkgi6Tdoa8gC8ffGAAqz9pzPTZWAYbbsHHoED/zTmtkv/VoYTYyShUn8lhA==",
  "license": "MIT",
  "engines": {
    "node": ">= 0.4.0"
  }
},
"node_modules/v8-compile-cache-lib": {
  "version": "3.0.1",
  "resolved": "https://registry.npmjs.org/v8-compile-cache-lib/-/v8-compile-cache-lib-3.0.1.tgz",
  "integrity":
"sha512-wa7YjyUGfNzngI/vtK0UHAN+lgDCxBPCylVXGp0zu59Fz5aiGtNXaq3DhIov063MorB+VfufLh3JlF2KdTK3xg==",
  "dev": true,
  "license": "MIT"
},
"node_modules/vary": {
  "version": "1.1.2",
  "resolved": "https://registry.npmjs.org/vary/-/vary-1.1.2.tgz",
  "integrity":
"sha512-BNGbWLfd0eUPabhkXUVm0j8uuvREyTh5ovRa/dyow/BqAbZJyC+5fU+IzQ0zmAKzYqYRAISoRhdQr3eIZ/PXqg==",
  "license": "MIT",
  "engines": {
    "node": ">= 0.8"
  }
},
"node_modules/yn": {
  "version": "3.1.1",
  "resolved": "https://registry.npmjs.org/yn/-/yn-3.1.1.tgz",
  "integrity":
"sha512-Ux4ygGWSu2c7isFWe8Yu1YluJmqVhxqK2cLXNQA5AcC3QfbGNpM7fu0Y8b/zl6pXlnFxZYvWhd3fhBY9DLmC6Q==",
  "dev": true,
  "license": "MIT",
  "engines": {
    "node": ">=6"
  }
}
}
```

File: D:\Android\sso_wis_wismon_nodejs\be_wismon_keuangan\package.json

```
{
  "name": "be_wismon_keuangan",
  "version": "1.0.0",
  "description": "Backend API for Wismon Keuangan - Financial Management System",
  "main": "dist/index.js",
  "scripts": {
    "build": "tsc",
    "start": "node dist/index.js",
    "dev": "nodemon src/index.ts",
    "dev:watch": "nodemon --exec ts-node src/index.ts",
    "clean": "rimraf dist",
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [
    "nodejs",
    "typescript",
    "express",
    "api",
    "financial",
    "management"
  ],
  "author": "",
  "license": "ISC",
  "dependencies": {
    "@types/bcryptjs": "^2.4.6",
    "@types/cors": "^2.8.19",
    "@types/jsonwebtoken": "^9.0.10",
    "bcryptjs": "^3.0.2",
    "cors": "^2.8.5",
    "dotenv": "^16.4.7",
    "express": "^4.21.2",
    "express-rate-limit": "^7.5.1",
    "helmet": "^8.1.0",
    "jsonwebtoken": "^9.0.2",
    "mysql2": "^3.11.5"
  },
  "devDependencies": {
    "@types/express": "^5.0.0",
    "@types/node": "^22.10.2",
    "nodemon": "^3.1.9",
    "ts-node": "^10.9.2",
    "typescript": "^5.7.2"
  }
}
```

File: D:\Android\sso_wis_wismon_nodejs\be_wismon_keuangan\README.md

Wismon Keuangan Backend API

Backend API for Wismon Keuangan - Financial Management System built with Node.js, TypeScript, and Express.js.

¿ Getting Started

Prerequisites

- Node.js (v16 or higher)
- npm or yarn package manager

Installation

1. Navigate to the backend directory:

```
```bash
cd be_wismon_keuangan
```
```

2. Install dependencies:

```
```bash
npm install
```
```

Development

Start the development server with hot reload:

```
```bash
npm run dev
```
```

The server will start on `http://localhost:3000`

Available Scripts

- `npm run dev` - Start development server with nodemon
- `npm run dev:watch` - Start development server with ts-node
- `npm run build` - Build the project for production
- `npm run start` - Start the production server
- `npm run clean` - Remove build artifacts

API Endpoints

- `GET /` - Welcome message and API status
- `GET /health` - Health check endpoint

🧰 Tech Stack

- **Runtime**: Node.js
- **Language**: TypeScript
- **Framework**: Express.js
- **Development**: nodemon, ts-node

📁 Project Structure

```
...
be_wismon_keuangan/
├── src/
│   ├── index.ts          # Application entry point
│   └── dist/             # Compiled JavaScript (after build)
├── package.json
├── tsconfig.json
└── README.md
...

```

🛠 Configuration

The application uses the following configuration:

- Port: 3000 (default) or `PORT` environment variable
- TypeScript target: ES2022
- Module system: CommonJS

📝 Development Notes

- Source files are located in the `src/` directory
- Compiled files are output to the `dist/` directory
- The development server automatically restarts when files change
- Strict TypeScript configuration is enabled for better code quality

File: D:\Android\sso_wis_wismon_nodejs\be_wismon_keuangan\tsconfig.json

```
{
  "compilerOptions": {
    /* Visit https://aka.ms/tsconfig to read more about this file */

    /* Projects */
    // "incremental": true, /* Save .tsbuildinfo files to allow for incremental
    compilation of projects. */
    // "composite": true, /* Enable constraints that allow a TypeScript project
    to be used with project references. */
    // "tsBuildInfoFile": "./.tsbuildinfo", /* Specify the path to .tsbuildinfo incremental
    compilation file. */
    // "disableSourceOfProjectReferenceRedirect": true, /* Disable preferring source files instead of
    declaration files when referencing composite projects. */
    // "disableSolutionSearching": true, /* Opt a project out of multi-project reference
    checking when editing. */
    // "disableReferencedProjectLoad": true, /* Reduce the number of projects loaded automatically
    by TypeScript. */

    /* Language and Environment */
    "target": "ES2022" /* Set the JavaScript language version for emitted JavaScript and include compatible
    library declarations. */,
    "lib": [
      "ES2022"
    ] /* Specify a set of bundled library declaration files that describe the target runtime environment. */,
    // "jsx": "preserve", /* Specify what JSX code is generated. */
    // "libReplacement": true, /* Enable lib replacement. */
    // "experimentalDecorators": true, /* Enable experimental support for legacy experimental
    decorators. */
    // "emitDecoratorMetadata": true, /* Emit design-type metadata for decorated
    declarations in source files. */
    // "jsxFactory": "", /* Specify the JSX factory function used when
    targeting React JSX emit, e.g. 'React.createElement' or 'h'. */
    // "jsxFragmentFactory": "", /* Specify the JSX Fragment reference used for
    fragments when targeting React JSX emit e.g. 'React.Fragment' or 'Fragment'. */
    // "jsxImportSource": "", /* Specify module specifier used to import the JSX
    factory functions when using 'jsx: react-jsx*'. */
    // "reactNamespace": "", /* Specify the object invoked for 'createElement'.
    This only applies when targeting 'react' JSX emit. */
    // "noLib": true, /* Disable including any library files, including the
    default lib.d.ts. */
    // "useDefineForClassFields": true, /* Emit ECMAScript-standard-compliant class fields. */
    // "moduleDetection": "auto", /* Control what method is used to detect module-format
    JS files. */

    /* Modules */
    "module": "commonjs" /* Specify what module code is generated. */,
    "rootDir": "./src" /* Specify the root folder within your source files. */,
    "moduleResolution": "node10" /* Specify how TypeScript looks up a file from a given module specifier. */,
    "baseUrl": "." /* Specify the base directory to resolve non-relative module names. */,
    "paths": {
      "@/*": ["src/*"]
    } /* Specify a set of entries that re-map imports to additional lookup locations. */,
    // "rootDirs": [], /* Allow multiple folders to be treated as one when
    resolving modules. */
    // "typeRoots": [], /* Specify multiple folders that act like
    './node_modules/@types'. */
    // "types": [], /* Specify type package names to be included without
    being referenced in a source file. */
    // "allowUmdGlobalAccess": true, /* Allow accessing UMD globals from modules. */
    // "moduleSuffixes": [], /* List of file name suffixes to search when resolving
    a module. */
  }
}
```

```

    // "allowImportingTsExtensions": true,                /* Allow imports to include TypeScript file
extensions. Requires '--moduleResolution bundler' and either '--noEmit' or '--emitDeclarationOnly' to be set.
*/
    // "rewriteRelativeImportExtensions": true,           /* Rewrite '.ts', '.tsx', '.mts', and '.cts' file
extensions in relative import paths to their JavaScript equivalent in output files. */
    // "resolvePackageJsonExports": true,                /* Use the package.json 'exports' field when resolving
package imports. */
    // "resolvePackageJsonImports": true,                /* Use the package.json 'imports' field when resolving
imports. */
    // "customConditions": [],                           /* Conditions to set in addition to the
resolver-specific defaults when resolving imports. */
    // "noUncheckedSideEffectImports": true,             /* Check side effect imports. */
    "resolveJsonModule": true /* Enable importing .json files. */,
    // "allowArbitraryExtensions": true,                 /* Enable importing files with any extension, provided
a declaration file is present. */
    // "noResolve": true,                                /* Disallow 'import's, 'require's or '<reference>'s
from expanding the number of files TypeScript should add to a project. */

    /* JavaScript Support */
    // "allowJs": true,                                  /* Allow JavaScript files to be a part of your
program. Use the 'checkJS' option to get errors from these files. */
    // "checkJs": true,                                  /* Enable error reporting in type-checked JavaScript
files. */
    // "maxNodeModuleJsDepth": 1,                       /* Specify the maximum folder depth used for checking
JavaScript files from 'node_modules'. Only applicable with 'allowJs'. */

    /* Emit */
    // "declaration": true,                              /* Generate .d.ts files from TypeScript and JavaScript
files in your project. */
    // "declarationMap": true,                           /* Create sourcemaps for d.ts files. */
    // "emitDeclarationOnly": true,                      /* Only output d.ts files and not JavaScript files. */
    // "sourceMap": true,                                /* Create source map files for emitted JavaScript
files. */
    // "inlineSourceMap": true,                          /* Include sourcemap files inside the emitted
JavaScript. */
    // "noEmit": true,                                   /* Disable emitting files from a compilation. */
    // "outFile": "./",                                  /* Specify a file that bundles all outputs into one
JavaScript file. If 'declaration' is true, also designates a file that bundles all .d.ts output. */
    "outDir": "./dist" /* Specify an output folder for all emitted files. */,
    "removeComments": true /* Disable emitting comments. */,
    // "importHelpers": true,                            /* Allow importing helper functions from tslib once
per project, instead of including them per-file. */
    // "downlevelIteration": true,                       /* Emit more compliant, but verbose and less
performant JavaScript for iteration. */
    // "sourceRoot": "",                                 /* Specify the root path for debuggers to find the
reference source code. */
    // "mapRoot": "",                                    /* Specify the location where debugger should locate
map files instead of generated locations. */
    // "inlineSources": true,                            /* Include source code in the sourcemaps inside the
emitted JavaScript. */
    // "emitBOM": true,                                  /* Emit a UTF-8 Byte Order Mark (BOM) in the beginning
of output files. */
    // "newLine": "crlf",                                /* Set the newline character for emitting files. */
    // "stripInternal": true,                            /* Disable emitting declarations that have '@internal'
in their JSDoc comments. */
    // "noEmitHelpers": true,                            /* Disable generating custom helper functions like
'__extends' in compiled output. */
    // "noEmitOnError": true,                            /* Disable emitting files if any type checking errors
are reported. */
    // "preserveConstEnums": true,                      /* Disable erasing 'const enum' declarations in
generated code. */
    // "declarationDir": "./",                          /* Specify the output directory for generated
declaration files. */

    /* Interop Constraints */
    // "isolatedModules": true,                          /* Ensure that each file can be safely transpiled

```

```

without relying on other imports. */
    // "verbatimModuleSyntax": true,                /* Do not transform or elide any imports or exports
not marked as type-only, ensuring they are written in the output file's format based on the 'module' setting.
*/
    // "isolatedDeclarations": true,                /* Require sufficient annotation on exports so other
tools can trivially generate declaration files. */
    // "erasableSyntaxOnly": true,                /* Do not allow runtime constructs that are not part
of ECMAScript. */
    // "allowSyntheticDefaultImports": true,        /* Allow 'import x from y' when a module doesn't have
a default export. */
    "esModuleInterop": true /* Emit additional JavaScript to ease support for importing CommonJS modules. This
enables 'allowSyntheticDefaultImports' for type compatibility. */,
    // "preserveSymlinks": true,                /* Disable resolving symlinks to their realpath. This
correlates to the same flag in node. */
    "forceConsistentCasingInFileNames": true /* Ensure that casing is correct in imports. */,

    /* Type Checking */
    "strict": true /* Enable all strict type-checking options. */,
    "noImplicitAny": true /* Enable error reporting for expressions and declarations with an implied 'any'
type. */,
    "strictNullChecks": true /* When type checking, take into account 'null' and 'undefined'. */,
    "strictFunctionTypes": true /* When assigning functions, check to ensure parameters and the return values
are subtype-compatible. */,
    // "strictBindCallApply": true,                /* Check that the arguments for 'bind', 'call', and
'apply' methods match the original function. */
    // "strictPropertyInitialization": true,        /* Check for class properties that are declared but
not set in the constructor. */
    // "strictBuiltInIteratorReturn": true,        /* Built-in iterators are instantiated with a
'TReturn' type of 'undefined' instead of 'any'. */
    // "noImplicitThis": true,                /* Enable error reporting when 'this' is given the
type 'any'. */
    // "useUnknownInCatchVariables": true,        /* Default catch clause variables as 'unknown' instead
of 'any'. */
    // "alwaysStrict": true,                /* Ensure 'use strict' is always emitted. */
    // "noUnusedLocals": true,                /* Enable error reporting when local variables aren't
read. */
    // "noUnusedParameters": true,                /* Raise an error when a function parameter isn't
read. */
    // "exactOptionalPropertyTypes": true,        /* Interpret optional property types as written,
rather than adding 'undefined'. */
    "noImplicitReturns": true /* Enable error reporting for codepaths that do not explicitly return in a
function. */,
    "noFallthroughCasesInSwitch": true /* Enable error reporting for fallthrough cases in switch statements.
*/,
    "noUncheckedIndexedAccess": true /* Add 'undefined' to a type when accessed using an index. */,
    // "noImplicitOverride": true,                /* Ensure overriding members in derived classes are
marked with an override modifier. */
    // "noPropertyAccessFromIndexSignature": true, /* Enforces using indexed accessors for keys declared
using an indexed type. */
    // "allowUnusedLabels": true,                /* Disable error reporting for unused labels. */
    // "allowUnreachableCode": true,            /* Disable error reporting for unreachable code. */

    /* Completeness */
    // "skipDefaultLibCheck": true,                /* Skip type checking .d.ts files that are included
with TypeScript. */
    "skipLibCheck": true /* Skip type checking all .d.ts files. */
},
"include": ["src/**/*"],
"exclude": ["node_modules", "dist", "**/*.test.ts", "**/*.spec.ts"]
}

```

File: D:\Android\sso_wis_wismon_nodejs\be_wismon_keuangan\src\index.ts

```
import express from "express";
```

```

import cors from "cors";
import dotenv from "dotenv";
import { testConnections } from "../config/database";
import authRoutes from "../routes/authRoutes";
import paymentRoutes from "../routes/paymentRoutes";

// Load environment variables
dotenv.config();

const app = express();
const PORT = process.env.PORT || 3000;
const CORS_ORIGIN = process.env.CORS_ORIGIN || "http://localhost:3000";

// Middleware - Allow multiple origins for development
const allowedOrigins = [
  "http://localhost:3000",
  "http://localhost:8080",
  "http://localhost:54128",
  /^http:\/\/localhost:\d+$/, // Allow any localhost port
];

app.use(
  cors({
    origin: (origin, callback) => {
      // Allow requests with no origin (like mobile apps or curl requests)
      if (!origin) return callback(null, true);

      // Check if origin is in allowed list or matches localhost pattern
      const isAllowed = allowedOrigins.some((allowedOrigin) => {
        if (typeof allowedOrigin === "string") {
          return allowedOrigin === origin;
        } else {
          return allowedOrigin.test(origin);
        }
      });

      if (isAllowed) {
        callback(null, true);
      } else {
        callback(new Error("Not allowed by CORS"));
      }
    },
    credentials: true,
    methods: ["GET", "POST", "PUT", "DELETE", "OPTIONS"],
    allowedHeaders: ["Content-Type", "Authorization"],
  })
);

app.use(express.json({ limit: "10mb" }));
app.use(express.urlencoded({ extended: true, limit: "10mb" }));

// Request logging middleware
app.use((req, res, next) => {
  console.log(`${new Date().toISOString()} - ${req.method} ${req.path}`);
  next();
});

// Routes
app.use("/api/auth", authRoutes);
app.use("/api/payments", paymentRoutes);

// Health check endpoint
app.get("/health", (req, res) => {
  res.json({
    status: "healthy",
    uptime: process.uptime(),
    timestamp: new Date().toISOString(),
  });
});

```

```

    environment: process.env.NODE_ENV || "development",
  });
});

// Basic route
app.get("/", (req, res) => {
  res.json({
    message: "Wismon Keuangan Backend API",
    status: "running",
    timestamp: new Date().toISOString(),
    version: "1.0.0",
    endpoints: {
      auth: {
        login: "POST /api/auth/login",
        profile: "GET /api/auth/profile",
        verify: "POST /api/auth/verify",
      },
      payments: {
        history: "GET /api/payments/history",
        summary: "GET /api/payments/summary",
        detail: "GET /api/payments/detail/:id",
        refresh: "POST /api/payments/refresh",
        types: "GET /api/payments/types",
      },
    },
  });
});

// Error handling middleware
app.use(
  (
    error: any,
    req: express.Request,
    res: express.Response,
    next: express.NextFunction
  ) => {
    console.error("Unhandled error:", error);
    res.status(500).json({
      success: false,
      message: "Internal server error",
      errors: [
        process.env.NODE_ENV === "development"
          ? error.message
          : "Something went wrong",
      ],
    });
  }
);

// 404 handler
app.use("*", (req, res) => {
  res.status(404).json({
    success: false,
    message: "Endpoint not found",
    errors: [`${req.method} ${req.originalUrl} not found`],
  });
});

// Start server function
async function startServer() {
  try {
    console.log("🚀 Starting Wismon Keuangan Backend Server...");
    console.log(`🌐 Environment: ${process.env.NODE_ENV || "development"}`);

    // Test database connections
    console.log("🔍 Testing database connections...");
  }
}

```



```

const dbResults = await testConnections();

const successCount = Object.values(dbResults).filter(Boolean).length;
const totalCount = Object.keys(dbResults).length;

if (successCount === totalCount) {
  console.log("¿ All database connections successful!");
} else {
  console.log(
    `¿¿ ${successCount}/${totalCount} database connections successful`
  );
  console.log("Database connection results:", dbResults);
}

// Start the server
app.listen(PORT, () => {
  console.log("¿ Server started successfully!");
  console.log(`¿ API endpoint: http://localhost:${PORT}`);
  console.log(`¿ API documentation: http://localhost:${PORT}`);
  console.log(`¿ Health check: http://localhost:${PORT}/health`);
  console.log("");
  console.log("Available Endpoints:");
  console.log("  Authentication:");
  console.log("    POST /api/auth/login      - Student login");
  console.log("    GET  /api/auth/profile    - Get student profile");
  console.log("    POST /api/auth/verify     - Verify JWT token");
  console.log("  Payments:");
  console.log(
    "    GET  /api/payments/history - Payment history with filters"
  );
  console.log("    GET  /api/payments/summary - Payment summary/recap");
  console.log("    GET  /api/payments/detail/:id - Transaction details");
  console.log("    POST /api/payments/refresh - Refresh payment data");
  console.log(
    "    GET  /api/payments/types   - Available payment types"
  );
  console.log("");
  console.log("¿ Ready to accept requests!");
});
} catch (error) {
  console.error("¿ Failed to start server:", error);
  process.exit(1);
}
}

// Handle graceful shutdown
process.on("SIGTERM", () => {
  console.log("¿ SIGTERM received. Shutting down gracefully...");
  process.exit(0);
});

process.on("SIGINT", () => {
  console.log("¿ SIGINT received. Shutting down gracefully...");
  process.exit(0);
});

// Handle unhandled promise rejections
process.on("unhandledRejection", (reason, promise) => {
  console.error("¿ Unhandled Rejection at:", promise, "reason:", reason);
  process.exit(1);
});

// Start the server
startServer();

```

File: D:\Android\sso_wis_wismon_nodejs\be_wismon_keuangan\src\config\database.ts

```
import mysql from "mysql2/promise";
import dotenv from "dotenv";

dotenv.config();

export interface DatabaseConfig {
  host: string;
  port: number;
  user: string;
  password: string;
  database: string;
  connectionLimit: number;
  acquireTimeout: number;
  timeout: number;
}

// SSO Database Configuration
const ssoDbConfig: DatabaseConfig = {
  host: process.env.DB_SSO_HOST || "127.0.0.1",
  port: parseInt(process.env.DB_SSO_PORT || "3306"),
  user: process.env.DB_SSO_USER || "root",
  password: process.env.DB_SSO_PASSWORD || "",
  database: process.env.DB_SSO_NAME || "wirahusada_sso",
  connectionLimit: 10,
  acquireTimeout: 60000,
  timeout: 60000,
};

// WIS Database Configuration
const wisDbConfig: DatabaseConfig = {
  host: process.env.DB_WIS_HOST || "127.0.0.1",
  port: parseInt(process.env.DB_WIS_PORT || "3306"),
  user: process.env.DB_WIS_USER || "root",
  password: process.env.DB_WIS_PASSWORD || "",
  database: process.env.DB_WIS_NAME || "wirahusada_wis",
  connectionLimit: 10,
  acquireTimeout: 60000,
  timeout: 60000,
};

// WISMON Database Configuration
const wismonDbConfig: DatabaseConfig = {
  host: process.env.DB_WISMON_HOST || "127.0.0.1",
  port: parseInt(process.env.DB_WISMON_PORT || "3306"),
  user: process.env.DB_WISMON_USER || "root",
  password: process.env.DB_WISMON_PASSWORD || "",
  database: process.env.DB_WISMON_NAME || "wirahusada_wismon",
  connectionLimit: 10,
  acquireTimeout: 60000,
  timeout: 60000,
};

// Create connection pools
export const ssoPool = mysql.createPool(ssoDbConfig);
export const wisPool = mysql.createPool(wisDbConfig);
export const wismonPool = mysql.createPool(wismonDbConfig);

// Test database connections
export const testConnections = async () => {
  const results = {
    sso: false,
    wis: false,
    wismon: false,
  };
};
```

```

try {
  const ssoConnection = await ssoPool.getConnection();
  console.log("¿ SSO Database connected successfully");
  console.log(
    `¿ SSO Connected to: ${ssoDbConfig.host}:${ssoDbConfig.port}/${ssoDbConfig.database}`
  );
  ssoConnection.release();
  results.sso = true;
} catch (error) {
  console.error("¿ SSO Database connection failed:", error);
}

try {
  const wisConnection = await wisPool.getConnection();
  console.log("¿ WIS Database connected successfully");
  console.log(
    `¿ WIS Connected to: ${wisDbConfig.host}:${wisDbConfig.port}/${wisDbConfig.database}`
  );
  wisConnection.release();
  results.wis = true;
} catch (error) {
  console.error("¿ WIS Database connection failed:", error);
}

try {
  const wismonConnection = await wismonPool.getConnection();
  console.log("¿ WISMON Database connected successfully");
  console.log(
    `¿ WISMON Connected to: ${wismonDbConfig.host}:${wismonDbConfig.port}/${wismonDbConfig.database}`
  );
  wismonConnection.release();
  results.wismon = true;
} catch (error) {
  console.error("¿ WISMON Database connection failed:", error);
}

return results;
};

// Execute query helper functions
export const executeSsoQuery = async (query: string, params?: any[]) => {
  try {
    const [results] = await ssoPool.execute(query, params);
    return results;
  } catch (error) {
    console.error("SSO Database query error:", error);
    throw error;
  }
};

export const executeWisQuery = async (query: string, params?: any[]) => {
  try {
    const [results] = await wisPool.execute(query, params);
    return results;
  } catch (error) {
    console.error("WIS Database query error:", error);
    throw error;
  }
};

export const executeWismonQuery = async (query: string, params?: any[]) => {
  console.log("¿¿ WISMON DB - Executing query:", {
    query: query.replace(/\s+/g, " ").trim(),
    params,
    paramsTypes: params?.map((p) => ({ value: p, type: typeof p })),
  });

```

```

        timestamp: new Date().toISOString(),
    });

    try {
        const [results] = await wismonPool.execute(query, params);

        console.log("WISMON DB - Query successful:", {
            resultCount: Array.isArray(results) ? results.length : "Not array",
            resultType: typeof results,
            firstResult: Array.isArray(results) ? results[0] : results,
        });

        return results;
    } catch (error) {
        console.error("WISMON DB - Query error:", {
            error,
            query: query.replace(/\s+/g, " ").trim(),
            params,
            errorMessage: error instanceof Error ? error.message : "Unknown error",
        });
        throw error;
    }
};

// Export pools for direct access if needed
export { ssoDbConfig, wisDbConfig, wismonDbConfig };

// Keep backward compatibility
export const pool = ssoPool; // Default to SSO for auth
export const executeQuery = executeSsoQuery;

```

File:

D:\Android\sso_wis_wismon_nodejs\be_wismon_keuangan\src\controllers\authController.ts

```

import { Request, Response } from "express";
import { AuthService } from "../services/authService";
import { ApiResponse, LoginRequest } from "../types";

const authService = new AuthService();

export class AuthController {
    /**
     * POST /auth/login
     * Login endpoint for students
     */
    async login(req: Request, res: Response): Promise<void> {
        console.log("AUTH LOGIN - Request received:", {
            body: req.body,
            headers: req.headers,
            timestamp: new Date().toISOString(),
        });

        try {
            const { namam_nim, nrm }: LoginRequest = req.body;

            console.log("AUTH LOGIN - Extracted credentials:", {
                namam_nim,
                nrm,
                namam_nim_type: typeof namam_nim,
                nrm_type: typeof nrm,
            });

            if (!namam_nim || !nrm) {

```

```

        console.log("⚡ AUTH LOGIN - Missing credentials");
        res.status(400).json({
            success: false,
            message: "Student name/NIM and NRM are required",
            errors: ["namam_nim and nrm fields are required"],
        } as ApiResponse);
        return;
    }

    console.log("⚡ AUTH LOGIN - Attempting authentication...");
    const loginResult = await authService.login({ namam_nim, nrm });

    console.log("⚡ AUTH LOGIN - Authentication successful:", {
        hasToken: !!loginResult.token,
        userNrm: loginResult.user?.nrm,
        userNim: loginResult.user?.nim,
    });

    res.status(200).json({
        success: true,
        message: "Login successful",
        data: loginResult,
    } as ApiResponse);
} catch (error) {
    console.error("⚡ AUTH LOGIN - Error:", error);

    const errorMessage =
        error instanceof Error ? error.message : "Login failed";
    const statusCode =
        errorMessage.includes("not found") || errorMessage.includes("invalid")
            ? 401
            : 500;

    res.status(statusCode).json({
        success: false,
        message: errorMessage,
        errors: [errorMessage],
    } as ApiResponse);
}

/**
 * GET /auth/profile
 * Get current user profile (requires authentication)
 */
async getProfile(req: Request, res: Response): Promise<void> {
    try {
        const user = (req as any).user; // Set by authenticateToken middleware

        if (!user || !user.nrm) {
            res.status(401).json({
                success: false,
                message: "Authentication required",
                errors: ["User not found in request"],
            } as ApiResponse);
            return;
        }

        const student = await authService.getStudentProfile(user.nrm);

        if (!student) {
            res.status(404).json({
                success: false,
                message: "Student profile not found",
                errors: ["Student data not found"],
            } as ApiResponse);
        }
    }
}

```

```

        return;
    }

    res.status(200).json({
        success: true,
        message: "Profile retrieved successfully",
        data: {
            nrm: student.nrm,
            nim: student.nim,
            namam: student.namam,
            tgdaftar: student.tgdaftar,
            tplahir: student.tplahir,
        },
    } as ApiResponse);
} catch (error) {
    console.error("Get profile error:", error);

    res.status(500).json({
        success: false,
        message: "Failed to retrieve profile",
        errors: [error instanceof Error ? error.message : "Unknown error"],
    } as ApiResponse);
}
}

/**
 * POST /auth/verify
 * Verify JWT token
 */
async verifyToken(req: Request, res: Response): Promise<void> {
    try {
        const user = (req as any).user; // Set by authenticateToken middleware

        res.status(200).json({
            success: true,
            message: "Token is valid",
            data: {
                nrm: user.nrm,
                nim: user.nim,
                namam: user.namam,
            },
        } as ApiResponse);
    } catch (error) {
        res.status(401).json({
            success: false,
            message: "Invalid token",
            errors: ["Token verification failed"],
        } as ApiResponse);
    }
}
}
}

```

File:

D:\Android\sso_wis_wismon_nodejs\be_wismon_keuangan\src\controllers\paymentController.ts

```

import { Request, Response } from "express";
import { PaymentService } from "../services/paymentService";
import { ApiResponse, PaymentHistoryQuery } from "../types";

const paymentService = new PaymentService();

export class PaymentController {
    /**

```

```

* GET /payments/history
* Get payment history with filtering and pagination
*/
async getPaymentHistory(req: Request, res: Response): Promise<void> {
  console.log("⌚ PAYMENT HISTORY - Request received:", {
    query: req.query,
    timestamp: new Date().toISOString(),
  });

  try {
    const user = (req as any).user; // Set by authenticateToken middleware

    console.log("⌚ PAYMENT HISTORY - User from token:", {
      nrm: user?.nrm,
      nrm_type: typeof user?.nrm,
      hasUser: !!user,
    });

    if (!user || !user.nrm) {
      console.log("⌚ PAYMENT HISTORY - Authentication failed");
      res.status(401).json({
        success: false,
        message: "Authentication required",
        errors: ["User not found in request"],
      } as ApiResponse);
      return;
    }

    // Parse query parameters
    const filters: PaymentHistoryQuery = {
      page: parseInt(req.query.page as string) || 1,
      limit: parseInt(req.query.limit as string) || 20,
      startDate: req.query.startDate as string,
      endDate: req.query.endDate as string,
      type: req.query.type as string,
      sortBy:
        (req.query.sortBy as "tanggal" | "jumlah" | "type") || "tanggal",
      sortOrder: (req.query.sortOrder as "asc" | "desc") || "desc",
    };

    console.log("⌚ PAYMENT HISTORY - Parsed filters:", {
      filters,
      userNrm: user.nrm,
      userNrmType: typeof user.nrm,
    });

    console.log("⌚ PAYMENT HISTORY - Calling service...");
    const result = await paymentService.getPaymentHistory(user.nrm, filters);

    console.log("⌚ PAYMENT HISTORY - Service result:", {
      dataCount: result?.data?.length || 0,
      total: result?.total,
      page: result?.page,
      limit: result?.limit,
      firstItem: result?.data?.[0],
    });

    res.status(200).json({
      success: true,
      message: "Payment history retrieved successfully",
      data: result,
    } as ApiResponse);
  } catch (error) {
    console.error("⌚ PAYMENT HISTORY - Error:", error);

    res.status(500).json({

```

```

        success: false,
        message: "Failed to retrieve payment history",
        errors: [error instanceof Error ? error.message : "Unknown error"],
    } as ApiResponse);
}
}

/**
 * GET /payments/summary
 * Get payment summary/recapitulation
 */
async getPaymentSummary(req: Request, res: Response): Promise<void> {
    try {
        const user = (req as any).user; // Set by authenticateToken middleware

        if (!user || !user.nrm) {
            res.status(401).json({
                success: false,
                message: "Authentication required",
                errors: ["User not found in request"],
            } as ApiResponse);
            return;
        }

        const summary = await paymentService.getPaymentSummary(user.nrm);

        res.status(200).json({
            success: true,
            message: "Payment summary retrieved successfully",
            data: summary,
        } as ApiResponse);
    } catch (error) {
        console.error("Get payment summary error:", error);

        res.status(500).json({
            success: false,
            message: "Failed to retrieve payment summary",
            errors: [error instanceof Error ? error.message : "Unknown error"],
        } as ApiResponse);
    }
}

/**
 * GET /payments/detail/:id
 * Get detailed transaction information
 */
async getTransactionDetail(req: Request, res: Response): Promise<void> {
    try {
        const user = (req as any).user; // Set by authenticateToken middleware
        const transactionId = req.params.id;

        if (!user || !user.nrm) {
            res.status(401).json({
                success: false,
                message: "Authentication required",
                errors: ["User not found in request"],
            } as ApiResponse);
            return;
        }

        if (!transactionId) {
            res.status(400).json({
                success: false,
                message: "Transaction ID is required",
                errors: ["Transaction ID parameter is missing"],
            } as ApiResponse);
        }
    }
}

```



```

        return;
    }

    const detail = await paymentService.getTransactionDetail(
        transactionId,
        user.nrm
    );

    if (!detail) {
        res.status(404).json({
            success: false,
            message: "Transaction not found",
            errors: ["Transaction not found or does not belong to this user"],
        } as ApiResponse);
        return;
    }

    res.status(200).json({
        success: true,
        message: "Transaction detail retrieved successfully",
        data: detail,
    } as ApiResponse);
} catch (error) {
    console.error("Get transaction detail error:", error);

    res.status(500).json({
        success: false,
        message: "Failed to retrieve transaction detail",
        errors: [error instanceof Error ? error.message : "Unknown error"],
    } as ApiResponse);
}
}

/**
 * POST /payments/refresh
 * Refresh payment data
 */
async refreshPaymentData(req: Request, res: Response): Promise<void> {
    try {
        const user = (req as any).user; // Set by authenticateToken middleware

        if (!user || !user.nrm) {
            res.status(401).json({
                success: false,
                message: "Authentication required",
                errors: ["User not found in request"],
            } as ApiResponse);
            return;
        }

        const refreshed = await paymentService.refreshPaymentData(user.nrm);

        if (refreshed) {
            res.status(200).json({
                success: true,
                message: "Payment data refreshed successfully",
                data: { refreshed: true },
            } as ApiResponse);
        } else {
            res.status(400).json({
                success: false,
                message: "Failed to refresh payment data",
                errors: ["No payment data found for this user"],
            } as ApiResponse);
        }
    } catch (error) {

```

```

        console.error("Refresh payment data error:", error);

        res.status(500).json({
            success: false,
            message: "Failed to refresh payment data",
            errors: [error instanceof Error ? error.message : "Unknown error"],
        } as ApiResponse);
    }
}

/**
 * GET /payments/types
 * Get available payment types for filtering
 */
async getPaymentTypes(req: Request, res: Response): Promise<void> {
    console.log(`${ PAYMENT TYPES - Request received:`, {
        timestamp: new Date().toISOString(),
    });

    try {
        console.log(`${ PAYMENT TYPES - Calling service...`);
        const paymentTypes = await paymentService.getPaymentTypes();

        console.log(`${ PAYMENT TYPES - Service result:`, {
            count: paymentTypes.length || 0,
            types: paymentTypes,
        });

        res.status(200).json({
            success: true,
            message: "Payment types retrieved successfully",
            data: paymentTypes,
        } as ApiResponse);
    } catch (error) {
        console.error(`${ PAYMENT TYPES - Error:`, error);

        res.status(500).json({
            success: false,
            message: "Failed to retrieve payment types",
            errors: [error instanceof Error ? error.message : "Unknown error"],
        } as ApiResponse);
    }
}
}

```

File: D:\Android\sso_wis_wismon_nodejs\be_wismon_keuangan\src\routes\authRoutes.ts

```

import { Router } from "express";
import { AuthController } from "../controllers/authController";
import { authenticateToken } from "../utils/auth";

const router = Router();
const authController = new AuthController();

// Public routes
router.post("/login", authController.login.bind(authController));

// Protected routes (require authentication)
router.get(
    "/profile",
    authenticateToken,
    authController.getProfile.bind(authController)
);
router.post(

```

```

    "/verify",
    authenticateToken,
    authController.verifyToken.bind(authController)
  );

export default router;

```

File: D:\Android\sso_wis_wismon_nodejs\be_wismon_keuangan\src\routes\paymentRoutes.ts

```

import { Router } from "express";
import { PaymentController } from "../controllers/paymentController";
import { authenticateToken } from "../utils/auth";

const router = Router();
const paymentController = new PaymentController();

// All payment routes require authentication
router.use(authenticateToken);

// Payment history with filtering and pagination
router.get(
  "/history",
  paymentController.getPaymentHistory.bind(paymentController)
);

// Payment summary/recapitulation
router.get(
  "/summary",
  paymentController.getPaymentSummary.bind(paymentController)
);

// Transaction detail
router.get(
  "/detail/:id",
  paymentController.getTransactionDetail.bind(paymentController)
);

// Refresh payment data
router.post(
  "/refresh",
  paymentController.refreshPaymentData.bind(paymentController)
);

// Get payment types for filtering
router.get("/types", paymentController.getPaymentTypes.bind(paymentController));

export default router;

```

File: D:\Android\sso_wis_wismon_nodejs\be_wismon_keuangan\src\services\authService.ts

```

import { executeSsoQuery, executeWisQuery } from "../config/database";
import { User, Student, LoginRequest, LoginResponse } from "../types";
import { generateToken } from "../utils/auth";

export class AuthService {
  /**
   * Find student by name or NIM and NRM
   */
  async findStudent(namam_nim: string, nrm: string): Promise<Student | null> {
    try {
      // Try to find student by NIM first
      let query = `
        SELECT nrm, nim, namam, tgdaftar, tplahir, kdagama

```

```

        FROM mahasiswa
        WHERE nim = ? AND nrm = ?
    `;
    let results = (await executeWisQuery(query, [namam_nim, nrm])) as any[];

    if (results.length > 0) {
        return results[0] as Student;
    }

    // If not found by NIM, try by student name (exact match, case-insensitive)
    query = `
        SELECT nrm, nim, namam, tgdaftar, tplahir, kdagama
        FROM mahasiswa
        WHERE LOWER(namam) = LOWER(?) AND nrm = ?
    `;
    results = (await executeWisQuery(query, [namam_nim, nrm])) as any[];

    if (results.length > 0) {
        return results[0] as Student;
    }

    // Try with spaces removed (for cases like "HanikZaimatusSholichah" vs "Hanik Zaimatus Sholichah")
    // But still exact match after removing spaces
    const namam_nim_no_spaces = namam_nim.replace(/\s+/g, "");
    query = `
        SELECT nrm, nim, namam, tgdaftar, tplahir, kdagama
        FROM mahasiswa
        WHERE LOWER(REPLACE(namam, ' ', '')) = LOWER(?) AND nrm = ?
    `;
    results = (await executeWisQuery(query, [
        namam_nim_no_spaces,
        nrm,
    ])) as any[];

    if (results.length > 0) {
        return results[0] as Student;
    }

    return null;
} catch (error) {
    console.error("Error finding student:", error);
    throw new Error("Database error while finding student");
}
}

/**
 * Check if user exists in SSO system (optional - for future authentication)
 */
async findSsoUser(username: string): Promise<User | null> {
    try {
        const query = `
            SELECT id, username, email, created_at
            FROM user
            WHERE username = ?
        `;
        const results = (await executeSsoQuery(query, [username])) as any[];

        if (results.length > 0) {
            return results[0] as User;
        }

        return null;
    } catch (error) {
        console.error("Error finding SSO user:", error);
        return null; // Don't throw error - SSO is optional for now
    }
}

```

```

    }

    /**
     * Login student - validates student data and generates JWT token
     */
    async login(loginData: LoginRequest): Promise<LoginResponse> {
        const { namam_nim, nrm } = loginData;

        // Validate input
        if (!namam_nim || !nrm) {
            throw new Error("Student name/NIM and NRM are required");
        }

        // Find student in WIS database
        const student = await this.findStudent(namam_nim, nrm);

        if (!student) {
            throw new Error("Student not found or invalid credentials");
        }

        // Generate JWT token
        const token = generateToken({
            nrm: student.nrm,
            nim: student.nim,
            namam: student.namam,
        });

        return {
            token,
            user: {
                nrm: student.nrm,
                nim: student.nim,
                namam: student.namam,
            },
        };
    }

    /**
     * Get student profile by NRM (for authenticated requests)
     */
    async getStudentProfile(nrm: string): Promise<Student | null> {
        try {
            const query = `
                SELECT nrm, nim, namam, tgdaftar, tplahir, kdagama
                FROM mahasiswa
                WHERE nrm = ?
            `;
            const results = (await executeWisQuery(query, [nrm])) as any[];

            if (results.length > 0) {
                return results[0] as Student;
            }

            return null;
        } catch (error) {
            console.error("Error getting student profile:", error);
            throw new Error("Database error while getting student profile");
        }
    }
}

```

File: D:\Android\sso_wis_wismon_nodejs\be_wismon_keuangan\src\services\paymentService.ts

```
import { executeWismonQuery, executeWisQuery } from "../config/database";
```

```

import {
  PaymentHistoryItem,
  PaymentSummary,
  TransactionDetail,
  PaymentHistoryQuery,
  Student,
} from "../types";

export class PaymentService {
  /**
   * Get payment history for a student with filtering and pagination
   */
  async getPaymentHistory(
    nrm: string,
    filters: PaymentHistoryQuery = {}
  ): Promise<{
    data: PaymentHistoryItem[];
    total: number;
    page: number;
    limit: number;
  }> {
    console.log("PAYMENT SERVICE - getPaymentHistory called:", {
      nrm,
      nrmType: typeof nrm,
      filters,
      timestamp: new Date().toISOString(),
    });

    try {
      const {
        page = 1,
        limit = 20,
        startDate,
        endDate,
        type,
        sortBy = "tanggal",
        sortOrder = "desc",
      } = filters;

      const offset = (page - 1) * limit;

      console.log("PAYMENT SERVICE - Processed parameters:", {
        page,
        limit,
        offset,
        startDate,
        endDate,
        type,
        sortBy,
        sortOrder,
      });

      // Build WHERE conditions
      const conditions = ["tpm.nrm = ?"];
      const params = [nrm];

      if (startDate) {
        conditions.push("t.tanggal >= ?");
        params.push(startDate);
      }

      if (endDate) {
        conditions.push("t.tanggal <= ?");
        params.push(endDate);
      }
    }
  }
}

```

```

if (type) {
  conditions.push("a_credit.nama LIKE ?");
  params.push(`%${type}%`);
}

// Build ORDER BY clause
let orderByClause = "";
switch (sortBy) {
  case "tanggal":
    orderByClause = `ORDER BY t.tanggal ${sortOrder.toUpperCase()}`, t.jam ${sortOrder.toUpperCase()}`;
    break;
  case "jumlah":
    orderByClause = `ORDER BY t.nominal ${sortOrder.toUpperCase()}`;
    break;
  case "type":
    orderByClause = `ORDER BY a_credit.nama ${sortOrder.toUpperCase()}`;
    break;
  default:
    orderByClause = `ORDER BY t.tanggal ${sortOrder.toUpperCase()}`, t.jam ${sortOrder.toUpperCase()}`;
}

// Main query for payment history
const query = `
  SELECT
    t.no as id,
    t.no as tx_id,
    DATE_FORMAT(t.tanggal, '%d %M %Y') as tanggal,
    DATE_FORMAT(CONCAT(t.tanggal, ' ', IFNULL(t.jam, '00:00:00')), '%d %M %Y, %H:%i:%s WIB') as
tanggal_full,
    a_credit.nama as type,
    CONCAT('Rp ', FORMAT(t.nominal, 0)) as jumlah,
    'LUNAS' as status,
    CONCAT(a_debit.kode, ' - ', a_debit.nama) as method,
    a_debit.kode as method_code
  FROM transaksi t
  INNER JOIN t_pembayaranmahasiswa tpm ON t.no = tpm.no
  LEFT JOIN akun a_debit ON t.kodeakundebit = a_debit.kode
  LEFT JOIN akun a_credit ON t.kodeakunkredit = a_credit.kode
  WHERE ${conditions.join(" AND ")}
  ${orderByClause}
  LIMIT ? OFFSET ?
`;

params.push(limit.toString(), offset.toString());

console.log("?? PAYMENT SERVICE - Final query params:", {
  conditions: conditions.join(" AND "),
  params,
  paramsTypes: params.map((p) => typeof p),
});

// Count query for total records
const countQuery = `
  SELECT COUNT(*) as total
  FROM transaksi t
  INNER JOIN t_pembayaranmahasiswa tpm ON t.no = tpm.no
  LEFT JOIN akun a_debit ON t.kodeakundebit = a_debit.kode
  LEFT JOIN akun a_credit ON t.kodeakunkredit = a_credit.kode
  WHERE ${conditions.join(" AND ")}
`;

const countParams = params.slice(0, -2); // Remove limit and offset

console.log("?? PAYMENT SERVICE - Executing queries:", {
  mainQuery: query.replace(/\s+/g, " ").trim(),
  countQuery: countQuery.replace(/\s+/g, " ").trim(),
});

```

```

        mainParams: params,
        countParams,
    });

    // Execute queries
    const [results, countResults] = await Promise.all([
        executeWismonQuery(query, params) as Promise<any[]>,
        executeWismonQuery(countQuery, countParams) as Promise<any[]>,
    ]);

    console.log("PAYMENT SERVICE - Raw query results:", {
        resultsCount: results.length || 0,
        countResult: countResults[0],
        firstResult: results[0],
        allResults: results,
    });

    const total = (countResults as any[])[0].total || 0;

    console.log("PAYMENT SERVICE - Returning data:", {
        dataCount: results.length || 0,
        total,
        page,
        limit,
    });

    return {
        data: results as PaymentHistoryItem[],
        total,
        page,
        limit,
    };
} catch (error) {
    console.error("Error getting payment history:", error);
    throw new Error("Database error while getting payment history");
}
}

/**
 * Get payment summary/recapitulation for a student
 */
async getPaymentSummary(nrm: string): Promise<PaymentSummary> {
    try {
        const query = `
            SELECT
                a_credit.nama as payment_type,
                SUM(t.nominal) as total_amount
            FROM transaksi t
            INNER JOIN t_pembayaranmahasiswa tpm ON t.no = tpm.no
            LEFT JOIN akun a_credit ON t.kodeakunkredit = a_credit.kode
            WHERE tpm.nrm = ?
            GROUP BY a_credit.nama, a_credit.kode
            ORDER BY total_amount DESC
        `;

        const results = (await executeWismonQuery(query, [nrm])) as any[];

        const breakdown: { [key: string]: string } = {};
        let totalPayment = 0;

        results.forEach((row: any) => {
            const amount = parseFloat(row.total_amount) || 0;
            breakdown[row.payment_type] = `Rp ${amount.toLocaleString("id-ID")}`;
            totalPayment += amount;
        });
    }

```



```

    return {
      total_pembayaran: `Rp ${totalPayment.toLocaleString("id-ID")}`,
      breakdown,
    };
  } catch (error) {
    console.error("Error getting payment summary:", error);
    throw new Error("Database error while getting payment summary");
  }
}

/**
 * Get detailed transaction information
 */
async getTransactionDetail(
  transactionId: string,
  nrm: string
): Promise<TransactionDetail | null> {
  try {
    // Get transaction details
    const query = `
      SELECT
        t.no as id,
        t.no as tx_id,
        DATE_FORMAT(t.tanggal, '%d %M %Y') as tanggal,
        DATE_FORMAT(CONCAT(t.tanggal, ' ', IFNULL(t.jam, '00:00:00')), '%d %M %Y, %H:%i:%s WIB') as
tanggal_full,
        a_credit.nama as type,
        CONCAT('Rp ', FORMAT(t.nominal, 0)) as jumlah,
        'LUNAS' as status,
        CONCAT(a_debit.kode, ' - ', a_debit.nama) as method,
        a_debit.kode as method_code,
        tpm.prodi
      FROM transaksi t
      INNER JOIN t_pembayaranmahasiswa tpm ON t.no = tpm.no
      LEFT JOIN akun a_debit ON t.kodeakundebit = a_debit.kode
      LEFT JOIN akun a_credit ON t.kodeakunkredit = a_credit.kode
      WHERE t.no = ? AND tpm.nrm = ?
    `;

    const results = (await executeWismonQuery(query, [
      transactionId,
      nrm,
    ])) as any[];

    if (results.length === 0) {
      return null;
    }

    const transaction = results[0];

    // Get student information
    const studentQuery = `
      SELECT nrm, nim, namam
      FROM mahasiswa
      WHERE nrm = ?
    `;

    const studentResults = (await executeWisQuery(studentQuery, [
      nrm,
    ])) as any[];
    const student = studentResults[0] || {};

    // Build transaction detail
    const transactionDetail: TransactionDetail = {
      id: transaction.id,
      tanggal: transaction.tanggal,
    };
  }
}

```

```

        tanggal_full: transaction.tanggal_full,
        type: transaction.type,
        jumlah: transaction.jumlah,
        status: transaction.status,
        tx_id: transaction.tx_id,
        method: transaction.method,
        method_code: transaction.method_code,
        student_name: student.namam || "Unknown",
        student_nim: student.nim || "Unknown",
        student_prodi: transaction.prodi || "Unknown",
        payment_breakdown: {
            [transaction.type]: transaction.jumlah,
        },
    };

    return transactionDetail;
} catch (error) {
    console.error("Error getting transaction detail:", error);
    throw new Error("Database error while getting transaction detail");
}
}

/**
 * Refresh payment data (mainly for triggering cache refresh if needed)
 */
async refreshPaymentData(nrm: string): Promise<boolean> {
    try {
        // This could include cache clearing logic in the future
        // For now, just verify the student exists
        const query = `
            SELECT COUNT(*) as count
            FROM t_pembayaranmahasiswa
            WHERE nrm = ?
        `;

        const results = (await executeWismonQuery(query, [nrm])) as any[];
        return results.length > 0;
    } catch (error) {
        console.error("Error refreshing payment data:", error);
        return false;
    }
}

/**
 * Get available payment types from the database
 */
async getPaymentTypes(): Promise<{ kode: string; nama: string }[]> {
    try {
        const query = `
            SELECT DISTINCT a.kode, a.nama
            FROM akun a
            INNER JOIN transaksi t ON t.kodeakunkredit = a.kode
            INNER JOIN t_pembayaranmahasiswa tpm ON t.no = tpm.no
            WHERE a.kode >= 400 AND a.kode < 500
            ORDER BY a.kode
        `;

        console.log("?? PAYMENT SERVICE - Getting payment types from akun table");

        const results = (await executeWismonQuery(query, [])) as any[];

        console.log("?? PAYMENT SERVICE - Payment types retrieved:", {
            count: results.length || 0,
            types: results,
        });
    }
}

```

```

        return results as { kode: string; nama: string }[];
    } catch (error) {
        console.error("Error getting payment types:", error);
        throw new Error("Database error while getting payment types");
    }
}
}

```

File: D:\Android\sso_wis_wismon_nodejs\be_wismon_keuangan\src\types\index.ts

```

// User and Authentication Types
export interface User {
    id: string;
    username: string;
    email: string;
    created_at: Date;
}

export interface UserRole {
    username: string;
    app: string;
    rid: string;
}

export interface Student {
    nrm: string;
    nim: string;
    namam: string;
    tgdaftar: Date;
    tplahir: Date;
    kdagama: string;
    email: string;
}

export interface Employee {
    nip: string;
    nama: string;
    kdagama: string;
}

// Payment Types
export interface PaymentTransaction {
    id: string;
    kode_transaksi: string;
    tanggal: Date;
    total: number;
    status: string;
    jenistransaksi_id: string;
    akun_debit: string;
    akun_kredit: string;
}

export interface PaymentType {
    id: string;
    kode: string;
    nama_jenis: string;
}

export interface Account {
    id: string;
    kode: string;
    nama_akun: string;
}

```

```

export interface StudentPayment {
  no: string;
  nrm: string;
  prodi?: string;
  semester?: string;
  tahun_akademik?: string;
  jumlah: number;
  tanggal_bayar: Date;
}

// API Response Types
export interface ApiResponse<T = any> {
  success: boolean;
  message: string;
  data?: T;
  errors?: string[];
}

export interface LoginRequest {
  namam_nim: string; // Can be student name or NIM
  nrm: string;
}

export interface LoginResponse {
  token: string;
  user: {
    nrm: string;
    nim: string;
    namam: string;
  };
}

export interface PaymentHistoryQuery {
  page?: number;
  limit?: number;
  startDate?: string;
  endDate?: string;
  type?: string;
  sortBy?: "tanggal" | "jumlah" | "type";
  sortOrder?: "asc" | "desc";
}

export interface PaymentHistoryItem {
  id: string;
  tanggal: string;
  tanggal_full: string;
  type: string;
  jumlah: string;
  status: string;
  tx_id: string;
  method: string;
  method_code: string;
}

export interface PaymentSummary {
  total_pembayaran: string;
  breakdown: {
    [key: string]: string;
  };
}

export interface TransactionDetail extends PaymentHistoryItem {
  student_name: string;
  student_nim: string;
  student_prodi: string;
  payment_breakdown: {

```

```

    [key: string]: string;
  };
}

```

File: D:\Android\sso_wis_wismon_nodejs\be_wismon_keuangan\src\utils\auth.ts

```

import jwt from "jsonwebtoken";
import { Request, Response, NextFunction } from "express";

const JWT_SECRET = process.env.JWT_SECRET || "your-super-secret-jwt-key";

export interface JWTPayload {
  nrm: string;
  nim: string;
  namam: string;
  iat?: number;
  exp?: number;
}

export const generateToken = (
  payload: Omit<JWTPayload, "iat" | "exp">
): string => {
  return jwt.sign(payload, JWT_SECRET, { expiresIn: "24h" });
};

export const verifyToken = (token: string): JWTPayload => {
  return jwt.verify(token, JWT_SECRET) as JWTPayload;
};

export const authenticateToken = (
  req: Request,
  res: Response,
  next: NextFunction
): void => {
  const authHeader = req.headers["authorization"];
  const token = authHeader && authHeader.split(" ")[1]; // Bearer TOKEN

  if (!token) {
    res.status(401).json({
      success: false,
      message: "Access token required",
    });
    return;
  }

  try {
    const decoded = verifyToken(token);
    (req as any).user = decoded;
    next();
  } catch (error) {
    res.status(403).json({
      success: false,
      message: "Invalid or expired token",
    });
  }
};

export const extractTokenFromHeader = (authHeader?: string): string | null => {
  if (!authHeader) return null;
  const parts = authHeader.split(" ");
  if (parts.length !== 2 || parts[0] !== "Bearer") return null;
  return parts[1] || null;
};

```