

API Contract Documentation

Digital Forensics Analysis Platform - Backend API

Version: 1.0.0

Base URL: http://localhost:8000/api/v1

API Version: /api/v1

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Authentication

Overview

All protected endpoints require Bearer Token authentication. Token is obtained from the login endpoint.

Headers

```
Authorization: Bearer <access_token>
Content-Type: application/json
```

Login

Endpoint: POST /api/v1/auth/login

Description: Authenticate user and get access token.

Request Body:

```
{
  "email": "admin@gmail.com",
  "password": "admin.admin"
}
```

Response (200 OK):

```
{
  "status": 200,
  "message": "Login successful",
  "data": {
    "user": {
      "id": 1,
      "email": "admin@gmail.com",
      "fullname": "Admin Forensic",
      "tag": "Admin",
      "role": "admin"
    },
    "access_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..."
  }
}
```

Error Responses:

401 Unauthorized (Invalid Credentials):

```
{  
  "status": 401,  
  "message": "Invalid credentials",  
  "data": null  
}
```

400 Bad Request (Validation Error):

```
{  
  "status": 400,  
  "message": "Validation error",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

Logout

Endpoint: POST /api/v1/auth/logout

Description: Logout user and revoke access token.

Headers: Authorization: Bearer <access_token>

Response (200 OK):

```
{  
  "status": 200,  
  "message": "Logout successful. Access token revoked.",  
  "data": null  
}
```

Error Responses:

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

Create User (Admin Only)

Endpoint: POST /api/v1/auth/create-user

Description: Create a new user. Only admin can access this endpoint.

Headers:

- Authorization: Bearer <admin_access_token>
- Content-Type: application/json

Request Body:

```
{
  "email": "newuser@example.com",
  "password": "password123",
  "fullname": "New User",
  "tag": "Investigator"
}
```

Request Body Fields:

Field	Type	Required	Description	Validation
email	string	Yes	User email address	Must be valid email format
password	string	Yes	User password	Minimum 8 characters, maximum 128 characters
fullname	string	Yes	User full name	-
tag	string	Yes	User tag/category	Options: "Admin", "Investigator", "Ahli Forensic", or other tags

Note:

- `confirm_password` field is **NOT** sent to the API. It's only used for frontend validation to ensure password matches.
- The `role` is automatically mapped from the `tag` field (see mapping below).

Tag to Role Mapping:

- "Admin" → role: "admin"
- "Investigator" → role: "user"
- "Ahli Forensic" → role: "user"
- Other tags → role: "user" (default)

Response (201 Created):

```
{
  "status": 201,
  "message": "User created successfully",
  "data": {
    "id": 4,
    "email": "newuser@example.com",
    "fullname": "New User",
    "tag": "Investigator",
    "role": "user",
    "is_active": true,
    "created_at": "2025-01-15T10:30:00Z"
  }
}
```

Error Responses:

400 Bad Request (Invalid Input):

```
{
  "status": 400,
  "message": "Validation error",
  "data": null
}
```

409 Conflict (Email Already Exists):

```
{
  "status": 409,
  "message": "User with this email already exists",
  "data": null
}
```

403 Forbidden (Not Admin):

```
{
  "status": 403,
  "message": "Access denied. Admin role required.",
  "data": null
}
```

Example Request (cURL):

```
curl -X POST "http://localhost:8000/api/v1/auth/create-user" \
-H "Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..." \
-H "Content-Type: application/json" \
-d '{
  "email": "investigator@example.com",
  "password": "securepass123",
  "fullname": "John Investigator",
  "tag": "Investigator"
}'
```

Example Request (Postman):

1. Method: POST
2. URL: <http://localhost:8000/api/v1/auth/create-user>
3. Headers:
 - o Authorization: Bearer {admin_token}
 - o Content-Type: application/json
4. Body (raw JSON):

```
{
  "email": "investigator@example.com",
  "password": "securepass123",
  "fullname": "John Investigator",
  "tag": "Investigator"
}
```

Form Fields Mapping (UI to API):

The "Add User" form in the UI contains the following fields:

UI Field	API Field	Required	Notes
Name	fullname	Yes	User's full name
Email	email	Yes	Must be valid email format
Password	password	Yes	Min 8 chars, max 128 chars
Confirm Password	-	No	Frontend validation only, NOT sent to API
Tag (dropdown)	tag	Yes	Select from: "Admin", "Investigator", "Ahli Forensic"

Frontend Validation (Before API Call):

- password and confirm_password must match
- email must be valid email format
- password must be at least 8 characters
- All required fields must be filled

Backend Validation:

- Email format validation
- Password length: 8-128 characters
- Email uniqueness check

- Admin role check (only admin can create users)

Get All Users (Admin Only)

Endpoint: GET /api/v1/auth/get-all-users

Description: Get paginated list of all users. Only admin can access this endpoint. Results are sorted by newest first (descending order by ID or created_at).

Headers: Authorization: Bearer <admin_access_token>

Query Parameters:

Parameter	Type	Required	Default	Description
skip	integer	No	0	Number of records to skip (pagination)
limit	integer	No	10	Number of records per page (max: 100)
search	string	No	-	Search keyword (searches in name, email)
tag	string	No	-	Filter by tag: "Admin", "Investigator", "Ahli Forensic"

Sorting:

- Results are sorted by ID descending (newest first, oldest last)
- First item in the array is the most recently created user
- Last item in the array is the oldest user

Response (200 OK):

```
{
  "status": 200,
  "message": "Users retrieved successfully",
  "data": [
    {
      "id": 3,
      "email": "ahliforensic@gmail.com",
      "fullname": "Ahli Forensic",
      "tag": "Ahli Forensic",
      "role": "user",
      "is_active": true,
      "created_at": "2025-11-06T18:50:13.382112Z"
    },
    {
      "id": 2,
      "email": "investigator@gmail.com",
      "fullname": "Investigator",
      "tag": "Investigator",
      "role": "user",
      "is_active": true,
      "created_at": "2025-11-06T18:50:13.382105Z"
    },
    {
      "id": 1,
      "email": "admin@gmail.com",
      "fullname": "Admin Forensic",
      "tag": "Admin",
      "role": "admin",
      "is_active": true,
      "created_at": "2025-11-06T18:50:13.38197Z"
    }
  ],
  "total": 3,
  "page": 1,
  "size": 10
}
```

Note: Data diurutkan dari **terbaru ke terlama** berdasarkan ID (ID terbesar = terbaru, ID terkecil = terlama).

Error Responses:

403 Forbidden (Not Admin):

```
{  
  "status": 403,  
  "message": "Access denied. Admin role required.",  
  "data": null  
}
```

Example Requests:

```
GET /api/v1/auth/get-all-users?skip=0&limit=10  
GET /api/v1/auth/get-all-users?search=investigator  
GET /api/v1/auth/get-all-users?tag=Admin&limit=20  
GET /api/v1/auth/get-all-users?skip=10&limit=5&search=admin
```

¶ Case Management

Base Path

```
/api/v1/cases
```

1. Get Case Summary (Dashboard Statistics)

Endpoint: GET `/api/v1/cases/statistics/summary`

Description: Get summary statistics of cases by status (Open, Closed, Reopen, Investigating).

Headers: Authorization: Bearer <access_token>

Response (200 OK):

```
{  
  "status": 200,  
  "message": "Statistics retrieved successfully",  
  "data": {  
    "open_cases": 21,  
    "closed_cases": 21,  
    "reopen_cases": 21,  
    "investigating_cases": 21  
  },  
  "total_cases": 63  
}
```

Error Responses:

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

2. Get All Cases

Endpoint: GET /api/v1/cases/get-all-cases

Description: Get paginated list of cases with search and filter support. Results are filtered based on user role (RBAC). Results are sorted by newest first (descending order by ID).

Headers: Authorization: Bearer <access_token>

Query Parameters:

Parameter	Type	Required	Default	Description
skip	integer	No	0	Number of records to skip (pagination)
limit	integer	No	10	Number of records per page (max: 100)
search	string	No	-	Search keyword (searches in title, investigator, agency)
status	string	No	-	Filter by status: "Open", "Closed", "Reopen", "Investigating"

Sorting:

- Results are sorted by ID descending (newest first, oldest last)
- First item in the array is the most recently created case
- Last item in the array is the oldest case

RBAC Behavior:

- Admin: Sees all cases
- User: Only sees cases where main_investigator matches their fullname

Response (200 OK):

```
{
  "status": 200,
  "message": "Cases retrieved successfully",
  "data": [
    {
      "id": 53,
      "case_number": "34214286",
      "title": "Latest Case",
      "description": "Most recently created case",
      "status": "Open",
      "main_investigator": "Solehun",
      "agency_name": "Trikora",
      "work_unit_name": "Direktorat Reserse Kriminal Umum",
      "created_at": "15/01/2026",
      "updated_at": "2026-01-15T10:30:00Z"
    },
    {
      "id": 52,
      "case_number": "34214285",
      "title": "Second Latest Case",
      "description": "Second most recently created case",
      "status": "Open",
      "main_investigator": "Agus Smith",
      "agency_name": "Police HQ",
      "work_unit_name": null,
      "created_at": "14/01/2026",
      "updated_at": "2026-01-14T11:00:00Z"
    },
    {
      "id": 1,
      "case_number": "34214234",
      "title": "Buronan Maroko Interpol",
      "description": "Investigasi kasus buronan internasional",
      "status": "Open",
      "main_investigator": "Solehun",
      "agency_name": "Trikora",
      "work_unit_name": "Direktorat Reserse Kriminal Umum",
      "created_at": "12/12/2025",
      "updated_at": "2025-12-12T10:30:00Z"
    }
  ],
  "total": 53,
  "page": 1,
  "size": 10
}
```

Note:

- Data diurutkan dari **terbaru ke terlama** berdasarkan ID (ID terbesar = terbaru, ID terkecil = terlama)
- Case dengan **id: 53** adalah yang terbaru (muncul pertama)
- Case dengan **id: 1** adalah yang terlama (muncul terakhir)

Example Requests:

```
GET /api/v1/cases/get-all-cases?skip=0&limit=5
GET /api/v1/cases/get-all-cases?search=Buronan
GET /api/v1/cases/get-all-cases?status=Open&limit=20
GET /api/v1/cases/get-all-cases?skip=10&limit=5&search=Maroko&status=Open
```

Error Responses:

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

3. Get Case Detail Comprehensive

Endpoint: GET /api/v1/cases/get-case-detail-comprehensive

Description: Get comprehensive details of a specific case including persons of interest, case logs, and notes.

Headers: Authorization: Bearer <access_token>

Query Parameters:

Parameter	Type	Required	Description
case_id	integer	Yes	Unique case identifier

Response (200 OK):

```
{  
  "status": 200,  
  "message": "Case detail retrieved successfully",  
  "data": {  
    "case": {  
      "id": 1,  
      "case_number": "34214234",  
      "title": "Buronan Maroko Interpol",  
      "description": "Tersangka diduga terlibat dalam kasus perdagangan narkotika lintas negara...",  
      "status": "Open",  
      "case_officer": "Solehun",  
      "agency": "Trikora",  
      "work_unit": "Dirjen Imigrasi IV",  
      "created_date": "20/12/2025"  
    },  
    "persons_of_interest": [  
      {  
        "id": 1,  
        "name": "Mandeep Singh",  
        "person_type": "Suspect",  
        "analysis": [  
          {  
            "evidence_id": "342344442",  
            "summary": "Berdasarkan rekaman CCTV tanggal 10 September 2025...",  
            "status": "Analysis"  
          }  
        ]  
      },  
      {  
        "id": 2,  
        "name": "Nathalie",  
        "person_type": "Witness",  
        "analysis": []  
      }  
    ],  
    "logs": [  
      {  
        "log_id": 1,  
        "log_type": "Case Log",  
        "content": "Initial investigation report submitted",  
        "date": "2025-01-01T10:00:00Z",  
        "user": "Solehun"  
      },  
      {  
        "log_id": 2,  
        "log_type": "Case Log",  
        "content": "Evidence item added",  
        "date": "2025-01-02T12:00:00Z",  
        "user": "Solehun"  
      }  
    ]  
  }  
}
```

```

"case_log": [
  {
    "id": 1,
    "case_id": 1,
    "action": "Open",
    "changed_by": "",
    "change_detail": "",
    "notes": "",
    "status": "Open",
    "created_at": "2025-05-09T18:00:00Z"
  },
  {
    "id": 2,
    "case_id": 1,
    "action": "Edit",
    "changed_by": "Wisnu",
    "change_detail": "Adding person Nathalie",
    "notes": "",
    "status": "Open",
    "created_at": "2025-05-16T12:00:00Z"
  }
],
"notes": [
  {
    "timestamp": "20 Dec 2025, 14:30",
    "status": "Active",
    "content": "Dokumentasi detail, isolasi jaringan, serta pencatatan chain of custody sangat penting..."
  }
],
"summary": {
  "total_persons": 2,
  "total_evidence": 3,
  "total_case_log": 5,
  "total_notes": 1
}
}

```

Error Responses:

404 Not Found:

```
{
  "status": 404,
  "message": "Case with ID {case_id} not found",
  "data": null
}
```

401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

4. Create Case

Endpoint: POST /api/v1/cases/create-case

Description: Create a new case. Case number can be auto-generated or manually provided.

Headers:

- Authorization: Bearer <access_token>
- Content-Type: application/json

Request Body:

```
{  
    "title": "Buronan Maroko Interpol",  
    "description": "Investigasi kasus buronan internasional",  
    "main_investigator": "Solehun",  
    "agency_name": "Trikora",  
    "work_unit_name": "Direktorat Reserse Kriminal Umum",  
    "case_type": "Criminal",  
    "priority": "High",  
    "auto_generate_case_number": true  
}
```

OR (Manual Case Number):

```
{  
    "title": "Buronan Maroko Interpol",  
    "description": "Investigasi kasus buronan internasional",  
    "main_investigator": "Solehun",  
    "agency_name": "Trikora",  
    "work_unit_name": "Direktorat Reserse Kriminal Umum",  
    "case_number": "REG/123/2024/DRKUM"  
}
```

Response (201 Created):

```
{  
    "status": 201,  
    "message": "Case created successfully",  
    "data": {  
        "id": 1,  
        "case_number": "BUR-121225-0001",  
        "title": "Buronan Maroko Interpol",  
        "description": "Investigasi kasus buronan internasional",  
        "status": "Open",  
        "main_investigator": "Solehun",  
        "agency_name": "Trikora",  
        "work_unit_name": "Direktorat Reserse Kriminal Umum",  
        "created_at": "2025-12-12T10:30:00Z",  
        "updated_at": "2025-12-12T10:30:00Z"  
    }  
}
```

Error Responses:

400 Bad Request:

```
{  
    "status": 400,  
    "message": "Validation error",  
    "data": null  
}
```

409 Conflict (Case Number Already Exists):

```
{  
  "status": 409,  
  "message": "Case number 'REG/123/2024/DRKUM' already exists",  
  "data": null  
}
```

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

5. Update Case

Endpoint: PUT /api/v1/cases/update-case

Description: Update an existing case. All fields are optional (partial update).

Headers:

- Authorization: Bearer <access_token>
- Content-Type: application/json

Request Body (all fields optional, but `case_id` is required):

```
{  
  "case_id": 1,  
  "title": "Updated Case Title",  
  "description": "Updated description",  
  "status": "Closed",  
  "main_investigator": "New Investigator",  
  "agency_name": "New Agency",  
  "work_unit_name": "New Work Unit"  
}
```

Response (200 OK):

```
{  
  "status": 200,  
  "message": "Case updated successfully",  
  "data": {  
    "id": 1,  
    "case_number": "34214234",  
    "title": "Updated Case Title",  
    "description": "Updated description",  
    "status": "Closed",  
    "main_investigator": "New Investigator",  
    "agency_name": "New Agency",  
    "work_unit_name": "New Work Unit",  
    "created_at": "2025-12-12T10:30:00Z",  
    "updated_at": "2025-12-12T15:00:00Z"  
  }  
}
```

Error Responses:

400 Bad Request:

```
{  
  "status": 400,  
  "message": "Validation error",  
  "data": null  
}
```

404 Not Found:

```
{  
  "status": 404,  
  "message": "Case with ID {case_id} not found",  
  "data": null  
}
```

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

6. Delete Case

Endpoint: `DELETE /api/v1/cases/delete-case`

Description: Delete a case and all related data (logs, notes, persons).

Headers: `Authorization: Bearer <access_token>`

Query Parameters:

Parameter	Type	Required	Description
<code>case_id</code>	integer	Yes	Unique case identifier

Response (200 OK):

```
{  
  "status": 200,  
  "message": "Case deleted successfully"  
}
```

Error Responses:

404 Not Found:

```
{  
  "status": 404,  
  "message": "Case with ID {case_id} not found",  
  "data": null  
}
```

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

7. Export Case Details PDF

Endpoint: GET /api/v1/cases/export-case-details-pdf

Description: Export comprehensive case details as PDF document. Includes case information, persons of interest, case logs, and notes.

Headers: Authorization: Bearer <access_token>

Query Parameters:

Parameter	Type	Required	Description
case_id	integer	Yes	Unique case identifier

Response (200 OK):

- Content-Type: application/pdf
- Content-Disposition: attachment; filename="case_details_{case_id}_{timestamp}.pdf"

The response is a PDF file that can be downloaded directly.

Error Responses:

404 Not Found:

```
{  
  "status": 404,  
  "message": "Case with ID {case_id} not found",  
  "data": null  
}
```

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

Example Request:

```
GET /api/v1/cases/export-case-details-pdf?case_id=1  
Authorization: Bearer {access_token}
```

8. Save Case Summary

Endpoint: POST /api/v1/cases/save-summary

Description: Save or update summary for a specific case.

Headers:

- Authorization: Bearer <access_token>
- Content-Type: application/json

Request Body:

```
{  
  "case_id": 1,  
  "summary": "Berdasarkan rekaman CCTV tanggal 10 September 2025, tersangka terlihat memasuki gedung pada pukul 14:30 WIB. Investiga  
}
```

Response (200 OK):

```
{  
  "status": 200,  
  "message": "Case summary saved successfully",  
  "data": {  
    "case_id": 1,  
    "case_number": "34214234",  
    "case_title": "Buronan Maroko Interpol",  
    "summary": "Berdasarkan rekaman CCTV tanggal 10 September 2025, tersangka terlihat memasuki gedung pada pukul 14:30 WIB. Investiga  
    "updated_at": "2025-12-20T14:30:00Z"  
  }  
}
```

Error Responses:

400 Bad Request:

```
{  
  "status": 400,  
  "message": "Summary cannot be empty",  
  "data": null  
}
```

404 Not Found:

```
{  
  "status": 404,  
  "message": "Case with ID {case_id} not found",  
  "data": null  
}
```

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Failed to save case summary: {error_message}",  
  "data": null  
}
```

☰ Evidence Management

Base Path

/api/v1/evidence

1. Get Evidence List

Endpoint: GET /api/v1/evidence/get-evidence-list

Description: Get paginated list of evidences with search and filter support. **Results are sorted by newest first (descending order by ID).**

Headers: Authorization: Bearer <access_token>

Query Parameters:

Parameter	Type	Required	Default	Description
skip	integer	No	0	Number of records to skip (pagination)
limit	integer	No	10	Number of records per page (max: 100)
search	string	No	-	Search keyword (searches in evidence ID, case name, investigator, agency)
status	string	No	-	Filter by status
evidence_type_id	integer	No	-	Filter by evidence type ID

Sorting:

- Results are sorted by ID descending (newest first, oldest last)
- First item in the array is the most recently created evidence
- Last item in the array is the oldest evidence

Response (200 OK):

```
{
  "status": 200,
  "message": "Evidence list retrieved successfully",
  "data": [
    {
      "id": 5,
      "evidence_id": "34569809",
      "evidence_number": "EVID-005",
      "case_name": "Data Leak",
      "investigator": "Solehun",
      "agency": "Trikora",
      "title": "Evidence Title",
      "status": "Collected",
      "date_created": "12/12/2025",
      "created_at": "2025-12-12T10:30:00Z"
    },
    {
      "id": 4,
      "evidence_id": "34569809",
      "evidence_number": "EVID-004",
      "case_name": "Data Leak",
      "investigator": "Solehun",
      "agency": "Trikora",
      "title": "Evidence Title",
      "status": "Collected",
      "date_created": "12/12/2025",
      "created_at": "2025-12-12T09:30:00Z"
    },
    {
      "id": 2,
      "evidence_id": "12339813",
      "evidence_number": "EVID-002",
      "case_name": "Illegal Drone Flight",
      "investigator": "Agus Smith",
      "agency": "Police HQ",
      "title": "Evidence Title",
      "status": "Collected",
      "date_created": "12/12/2025",
      "created_at": "2025-12-12T08:30:00Z"
    },
    {
      "id": 1,
      "evidence_id": "12336728",
      "evidence_number": "EVID-001",
      "case_name": "Illegal Drone Flight",
      "investigator": "Agus Smith",
      "agency": "Police HQ",
      "title": "Evidence Title",
      "status": "Collected",
      "date_created": "12/12/2025",
      "created_at": "2025-12-12T07:30:00Z"
    }
  ],
  "total": 21,
  "page": 1,
  "size": 10
}
```

Note:

- Data diurutkan dari **terbaru ke terlama** berdasarkan ID (ID terbesar = terbaru, ID terkecil = terlama)
- Evidence dengan `id: 5` adalah yang terbaru (muncul pertama)
- Evidence dengan `id: 1` adalah yang terlama (muncul terakhir)
- Field `date_created` menggunakan format `DD/MM/YYYY` untuk tampilan UI

Example Requests:

```
GET /api/v1/evidence/get-evidence-list?skip=0&limit=10
GET /api/v1/evidence/get-evidence-list?search=Data%20Leak
GET /api/v1/evidence/get-evidence-list?status=Collected&limit=20
GET /api/v1/evidence/get-evidence-list?skip=10&limit=5&search=Agus
```

Error Responses:

401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

2. Create Evidence

Endpoint: POST /api/v1/evidence/create-evidence

Description: Create a new evidence item and associate it with a case.

Headers:

- Authorization: Bearer <access_token>
- Content-Type: application/json

Request Body:

```
{
  "case_id": 1,
  "evidence_id": "32342223",
  "evidence_number": "EVID-001",
  "title": "Handphone A",
  "description": "Smartphone dari tersangka",
  "evidence_type_id": 1,
  "status": "Collected",
  "source": "Handphone",
  "hash_value": "sha256:abcdef12345...",
  "file_path": "/data/evidence/evidence_001.zip"
}
```

Response (201 Created):

```
{
  "status": 201,
  "message": "Evidence created successfully",
  "data": {
    "case_id": 1,
    "evidence_id": "32342223",
    "evidence_number": "EVID-001",
    "title": "Handphone A",
    "description": "Smartphone dari tersangka",
    "status": "Collected",
    "source": "Handphone"
  }
}
```

Note: This endpoint automatically creates a case log entry when evidence is added.

Error Responses:

400 Bad Request:

```
{  
  "status": 400,  
  "message": "Validation error",  
  "data": null  
}
```

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

404 Not Found (Case not found):

```
{  
  "status": 404,  
  "message": "Case with ID {case_id} not found",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

3. Get Evidence Details by ID

Endpoint: GET /api/v1/evidence/get-evidence-by-id

Description: Get comprehensive details of a specific evidence item including summary, chain of custody, investigation hypothesis, tools used, and analysis results.

Headers: Authorization: Bearer <access_token>

Query Parameters:

Parameter	Type	Required	Description
evidence_id	integer	Yes	Unique evidence identifier

Response (200 OK):

```
{  
  "status": 200,  
  "message": "Evidence retrieved successfully",  
  "data": {  
    "id": 1,  
    "evidence_id": "32342223",  
    "evidence_number": "EVID-001",  
    "title": "Handphone A",  
    "description": "Smartphone dari tersangka",  
    "status": "Collected",  
    "source": "Handphone",  
    "investigator": "Solehun",  
    "date_created": "20/12/2025",  
    "person_related": "Dwiku".  
  }  
}
```

```
person_id": "123456789",
"case_related": "Buronan Maroko Interpol",
"case_id": 1,
"evidence_type": "File",
"evidence_detail": "081902938201",
"created_at": "2025-12-20T10:00:00Z",
"updated_at": "2025-12-20T10:00:00Z",
"summary": {
    "id": "33242352",
    "thumbnail": "/data/thumbnails/evidence_1_map.png",
    "text": "GPS handphone suspect menyatakan posisi yang berada di TKP pada saat kejadian."
},
"chain_of_custody": {
    "acquisition": {
        "date": "16 Mei 2025, 12:00",
        "investigator": "Solehun",
        "location": "Bandara Soekarno Hatta Terminal 1",
        "status": "Recorded"
    },
    "preparation": {
        "date": "16 Mei 2025, 14:00",
        "investigator": "Solehun",
        "location": "Forensic Lab",
        "status": "Recorded"
    },
    "extraction": {
        "date": "17 Mei 2025, 10:00",
        "investigator": "Solehun",
        "location": "Forensic Lab",
        "status": "Recorded"
    },
    "analysis": {
        "date": "18 Mei 2025, 15:00",
        "investigator": "Solehun",
        "location": "Forensic Lab",
        "status": "Recorded"
    }
},
"current_stage": {
    "stage": "Preparation",
    "location": "Bandara Soekarno Hatta Terminal 1",
    "investigation_hypothesis": [
        "1. Perangkat seluler tersangka kemungkinan besar menyimpan data GPS yang menunjukkan lokasi pada saat kejadian",
        "2. Data GPS dapat digunakan untuk membuktikan keberadaan tersangka di TKP",
        "3. Perangkat seluler mungkin terhubung dengan perangkat lain yang relevan dengan kasus"
    ],
    "tools_used": [
        "Google Earth",
        "Axiom Magnet Forensics",
        "Power BI"
    ],
    "extraction_results": {
        "file_name": "Handphone A",
        "file_size": "67 Gb",
        "file_path": "/data/extractions/evidence_1_extraction.zip"
    },
    "analysis_results": {
        "hypothesis": "Menemukan hubungan tersangka dengan temannya.",
        "result": "Tersangka terkait dengan suspect A, B, dan C.",
        "report_file": {
            "file_name": "PDF Report",
            "file_size": "14 Mb",
            "file_path": "/data/reports/evidence_1_analysis.pdf"
        }
    },
    "notes": "Penting untuk memastikan dokumentasi lengkap dan chain of custody yang jelas untuk menjaga integritas bukti digital."
}
```

```
},
"gallery": [
{
  "id": 1,
  "url": "/data/gallery/evidence_1_photo1.jpg",
  "thumbnail": "/data/gallery-thumbnails/evidence_1_photo1_thumb.jpg",
  "description": "Evidence bag sealed"
},
{
  "id": 2,
  "url": "/data/gallery/evidence_1_photo2.jpg",
  "thumbnail": "/data/gallery-thumbnails/evidence_1_photo2_thumb.jpg",
  "description": "Device in evidence bag"
}
]
}
```

Error Responses:

404 Not Found:

```
{
  "status": 404,
  "message": "Evidence with ID {evidence_id} not found",
  "data": null
}
```

401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

4. Log Custody Event

Endpoint: POST /api/v1/evidence/custody-events

Description: Log a chain of custody event for an evidence item.

Headers:

- Authorization: Bearer <access_token>
- Content-Type: application/json

Request Body (all fields required, including `evidence_id`):

```
{  
    "evidence_id": 1,  
    "event_type": "Acquisition",  
    "event_date": "2025-05-16T12:00:00Z",  
    "person_name": "Solehan",  
    "person_title": "Investigator",  
    "person_id": 1,  
    "location": "Bandara Soekarno Hatta Terminal 1",  
    "location_type": "Airport",  
    "action_description": "Seizure of evidence",  
    "tools_used": "Evidence bag, Camera",  
    "conditions": "Perangkat seluler tidak tersambung ke internet",  
    "duration": "2 hours",  
    "transferred_to": "Forensic Lab",  
    "transferred_from": "Crime Scene",  
    "transfer_reason": "For analysis",  
    "witness_name": "John Doe",  
    "witness_signature": "signature_hash",  
    "verification_method": "Digital signature",  
    "created_by": "admin@gmail.com",  
    "notes": "Evidence properly sealed and documented"  
}
```

Response (201 Created):

```
{  
    "status": 201,  
    "message": "Custody event logged successfully",  
    "data": {  
        "evidence_id": 1,  
        "event_type": "Acquisition",  
        "event_date": "2025-05-16T12:00:00Z",  
        "person_name": "Solehan",  
        "location": "Bandara Soekarno Hatta Terminal 1",  
        "action_description": "Seizure of evidence",  
        "is_immutable": true,  
        "is_verified": false,  
        "log_hash": "sha256_hash_here",  
        "created_at": "2025-05-16T12:00:00Z"  
    }  
}
```

Error Responses:

400 Bad Request:

```
{  
    "status": 400,  
    "message": "Validation error",  
    "data": null  
}
```

404 Not Found:

```
{  
    "status": 404,  
    "message": "Evidence with ID {evidence_id} not found",  
    "data": null  
}
```

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

5. Get Custody Chain

Endpoint: GET /api/v1/evidence/custody-chain

Description: Get complete chain of custody for an evidence item.

Headers: Authorization: Bearer <access_token>

Query Parameters:

Parameter	Type	Required	Description
evidence_id	integer	Yes	Unique evidence identifier

Response (200 OK):

```
{
  "evidence_id": 1,
  "evidence_number": "EVID-001",
  "evidence_title": "Handphone A",
  "custody_chain": [
    {
      "id": 1,
      "evidence_id": 1,
      "event_type": "Acquisition",
      "event_date": "2025-05-16T12:00:00Z",
      "person_name": "Solehan",
      "location": "Bandara Soekarno Hatta Terminal 1",
      "action_description": "Seizure of evidence",
      "tools_used": "Evidence bag, Camera",
      "is_verified": false,
      "created_at": "2025-05-16T12:00:00Z"
    },
    {
      "id": 2,
      "evidence_id": 1,
      "event_type": "Preparation",
      "event_date": "2025-05-16T14:00:00Z",
      "person_name": "Solehan",
      "location": "Forensic Lab",
      "action_description": "Evidence preparation",
      "tools_used": "Write blocker",
      "is_verified": true,
      "created_at": "2025-05-16T14:00:00Z"
    }
  ],
  "chain_integrity": true,
  "total_events": 2,
  "first_event": { /* first event object */ },
  "last_event": { /* last event object */ }
}
```

Error Responses:

404 Not Found:

```
{
  "status": 404,
  "message": "Evidence with ID {evidence_id} not found",
  "data": null
}
```

401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

6. Get Custody Events

Endpoint: GET /api/v1/evidence/custody-events

Description: Get paginated list of custody events for an evidence item.

Headers: Authorization: Bearer <access_token>

Query Parameters:

Parameter	Type	Required	Description
evidence_id	integer	Yes	Unique evidence identifier

Query Parameters:

Parameter	Type	Required	Default	Description
skip	integer	No	0	Number of records to skip
limit	integer	No	50	Number of records per page (max: 100)
event_type	string	No	-	Filter by event type

Response (200 OK):

```
{
  "status": 200,
  "message": "Custody events retrieved successfully",
  "data": [
    {
      "id": 1,
      "evidence_id": 1,
      "event_type": "Acquisition",
      "event_date": "2025-05-16T12:00:00Z",
      "person_name": "Solehan",
      "location": "Bandara Soekarno Hatta Terminal 1",
      "action_description": "Seizure of evidence",
      "tools_used": "Evidence bag, Camera",
      "is_verified": false,
      "created_at": "2025-05-16T12:00:00Z"
    }
  ],
  "total": 5,
  "page": 1,
  "size": 50
}
```

Error Responses:

404 Not Found:

```
{
  "status": 404,
  "message": "Evidence with ID {evidence_id} not found",
  "data": null
}
```

401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

7. Update Custody Event

Endpoint: PUT /api/v1/evidence/custody-events

Description: Update a custody event (limited fields, maintains immutability).

Headers:

- Authorization: Bearer <access_token>
- Content-Type: application/json

Request Body (all fields optional, but evidence_id and custody_id are required):

```
{  
  "evidence_id": 1,  
  "custody_id": 1,  
  "is_verified": true,  
  "notes": "Updated notes"  
}
```

Response (200 OK):

```
{  
  "status": 200,  
  "message": "Custody event updated successfully",  
  "data": {  
    "id": 1,  
    "evidence_id": 1,  
    "updated_fields": {  
      "is_verified": true,  
      "notes": "Updated notes"  
    }  
  }  
}
```

Error Responses:

400 Bad Request:

```
{  
  "status": 400,  
  "message": "Validation error",  
  "data": null  
}
```

404 Not Found:

```
{  
  "status": 404,  
  "message": "Evidence with ID {evidence_id} not found or Custody event with ID {custody_id} not found",  
  "data": null  
}
```

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

8. Generate Custody Report

Endpoint: POST /api/v1/evidence/custody-report

Description: Generate a custody report (PDF) for an evidence item.

Headers:

- Authorization: Bearer <access_token>
- Content-Type: application/json

Request Body (all fields required, including `evidence_id`):

```
{  
  "evidence_id": 1,  
  "report_type": "Full Chain of Custody",  
  "report_title": "Evidence Custody Report - EVID-001",  
  "report_description": "Complete chain of custody documentation",  
  "compliance_standard": "ISO 27037",  
  "generated_by": "admin@gmail.com"  
}
```

Response (201 Created):

```
{  
  "status": 201,  
  "message": "Custody report generated successfully",  
  "data": {  
    "evidence_id": 1,  
    "report_type": "Full Chain of Custody",  
    "report_title": "Evidence Custody Report - EVID-001",  
    "report_file_path": "/data/reports/custody_evidence_1_20250115_143022.pdf",  
    "is_verified": false,  
    "generated_date": "2025-01-15T14:30:22Z"  
  }  
}
```

Error Responses:

400 Bad Request:

```
{  
  "status": 400,  
  "message": "Validation error",  
  "data": null  
}
```

404 Not Found:

```
{  
  "status": 404,  
  "message": "Evidence with ID {evidence_id} not found",  
  "data": null  
}
```

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

10. Get Evidence Types

Endpoint: GET /api/v1/evidence/types

Description: Get list of available evidence types (for dropdown selection in forms).

Headers: Authorization: Bearer <access_token>

Response (200 OK):

```
{  
  "status": 200,  
  "message": "Evidence types retrieved successfully",  
  "data": [  
    {  
      "id": 1,  
      "name": "File"  
    },  
    {  
      "id": 2,  
      "name": "Device"  
    },  
    {  
      "id": 3,  
      "name": "Document"  
    },  
    {  
      "id": 4,  
      "name": "Image"  
    },  
    {  
      "id": 5,  
      "name": "Video"  
    }  
  ]  
}
```

Error Responses:

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

11. Get Evidence Sources

Endpoint: GET /api/v1/evidence/sources

Description: Get list of available evidence sources (for dropdown selection in forms).

Headers: Authorization: Bearer <access_token>

Response (200 OK):

```
{  
  "status": 200,  
  "message": "Evidence sources retrieved successfully",  
  "data": [  
    {  
      "id": 1,  
      "name": "Handphone"  
    },  
    {  
      "id": 2,  
      "name": "CCTV"  
    },  
    {  
      "id": 3,  
      "name": "Computer"  
    },  
    {  
      "id": 4,  
      "name": "Server"  
    },  
    {  
      "id": 5,  
      "name": "Network Device"  
    }  
  ]  
}
```

Error Responses:

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

12. Export Evidence Details PDF

Endpoint: GET /api/v1/evidence/export-evidence-details-pdf

Description: Export comprehensive evidence details as PDF document. Includes evidence information, summary, chain of custody, investigation hypothesis, tools used, analysis results, and gallery.

Headers: Authorization: Bearer <access_token>

Query Parameters:

Parameter	Type	Required	Description
evidence_id	integer	Yes	Unique evidence identifier

Response (200 OK):

- Content-Type: application/pdf
- Content-Disposition: attachment; filename="evidence_details_{evidence_id}_{timestamp}.pdf"

The response is a PDF file that can be downloaded directly.

Error Responses:

404 Not Found:

```
{  
  "status": 404,  
  "message": "Evidence with ID {evidence_id} not found",  
  "data": null  
}
```

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

Example Request:

```
GET /api/v1/evidence/export-evidence-details-pdf/1  
Authorization: Bearer {access_token}
```

Note: This endpoint generates a comprehensive PDF report including all evidence details, chain of custody stages (Acquisition, Preparation, Extraction, Analysis), investigation hypothesis, tools used, and analysis results.

13. Save Evidence Summary

Endpoint: POST /api/v1/evidence/save-summary

Description: Save or update summary for a specific evidence item.

Headers:

- Authorization: Bearer <access_token>
- Content-Type: application/json

Request Body:

```
{  
  "evidence_id": 1,  
  "summary": {  
    "id": "33242352",  
    "thumbnail": "/data/thumbnails/evidence_1_map.png",  
    "text": "GPS handphone suspect menyatakan posisi yang berada di TKP pada saat kejadian."  
  }  
}
```

Response (200 OK):

```
{  
  "status": 200,  
  "message": "Evidence summary saved successfully",  
  "data": {  
    "evidence_id": 1,  
    "evidence_number": "EVID-001",  
    "evidence_title": "Handphone A",  
    "summary": {  
      "id": "33242352",  
      "thumbnail": "/data/thumbnails/evidence_1_map.png",  
      "text": "GPS handphone suspect menyatakan posisi yang berada di TKP pada saat kejadian."  
    },  
    "updated_at": "2025-12-20T14:30:00Z"  
  }  
}
```

Error Responses:

400 Bad Request:

```
{  
  "status": 400,  
  "message": "Summary cannot be empty",  
  "data": null  
}
```

404 Not Found:

```
{  
  "status": 404,  
  "message": "Evidence with ID {evidence_id} not found",  
  "data": null  
}
```

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Failed to save evidence summary: {error_message}",  
  "data": null  
}
```

☒ Suspect Management (Person Management)

Base Path

/api/v1/suspects (for Suspect Management endpoints)
/api/v1/persons (for Person Management endpoints)

1. Get All Suspects

Endpoint: GET /api/v1/suspects/

Description: Get paginated list of suspects with search and filter support. Results are sorted by newest first (descending order by ID).

Headers: Authorization: Bearer <access_token>

Query Parameters:

Parameter	Type	Required	Default	Description
skip	integer	No	0	Number of records to skip (pagination)
limit	integer	No	10	Number of records per page (max: 100)
search	string	No	-	Search keyword (searches in name, case name, investigator)
status	string	No	-	Filter by status: "Witness", "Reported", "Suspected", "Suspect", "Defendant"

Sorting:

- Results are sorted by ID descending (newest first, oldest last)
- First item in the array is the most recently created suspect
- Last item in the array is the oldest suspect

Response (200 OK):

```
{  
  "status": 200,  
  "message": "Suspects retrieved successfully",  
  "data": [  
    {  
      "id": 5,  
      "name": "Kyle Reese",  
      "case_name": "Ransomware",  
      "investigator": "Solehun",  
      "agency": "Trikora",  
      "status": "Suspect",  
      "date_of_birth": "1990-05-15",  
      "place_of_birth": "Jakarta",  
      "nationality": "Indonesian",  
      "phone_number": "+628123456789",  
      "email": "kyle@example.com",  
      "address": "Jakarta, Indonesia",  
      "height": 175,  
      "weight": 70,  
      "eye_color": "Brown",  
      "hair_color": "Black",  
      "distinguishing_marks": "Tattoo on left arm",  
      "has_criminal_record": false,  
    }]
```

```
"risk_level": "high",
"is_confidential": false,
"created_at": "2025-12-15T10:30:00Z",
"updated_at": "2025-12-15T10:30:00Z"
},
{
  "id": 4,
  "name": "Sarah Connor",
  "case_name": "Malware Outbreak",
  "investigator": "Solehun",
  "agency": "Trikora",
  "status": "Defendant",
  "date_of_birth": "1985-08-20",
  "place_of_birth": "Bandung",
  "nationality": "Indonesian",
  "phone_number": "+628123456788",
  "email": "sarah@example.com",
  "address": "Bandung, Indonesia",
  "height": 165,
  "weight": 55,
  "eye_color": "Brown",
  "hair_color": "Brown",
  "distinguishing_marks": null,
  "has_criminal_record": true,
  "risk_level": "medium",
  "is_confidential": false,
  "created_at": "2025-12-14T09:20:00Z",
  "updated_at": "2025-12-14T09:20:00Z"
},
{
  "id": 3,
  "name": "Mike Ross",
  "case_name": "Phishing Attack",
  "investigator": "Solehun",
  "agency": "Trikora",
  "status": "Suspected",
  "date_of_birth": "1992-03-10",
  "place_of_birth": "Surabaya",
  "nationality": "Indonesian",
  "phone_number": "+628123456787",
  "email": "mike@example.com",
  "address": "Surabaya, Indonesia",
  "height": 180,
  "weight": 75,
  "eye_color": "Black",
  "hair_color": "Black",
  "distinguishing_marks": null,
  "has_criminal_record": false,
  "risk_level": "low",
  "is_confidential": false,
  "created_at": "2025-12-13T14:15:00Z",
  "updated_at": "2025-12-13T14:15:00Z"
},
{
  "id": 2,
  "name": "Jane Smith",
  "case_name": "Insider Threat",
  "investigator": "Solehun",
  "agency": "Trikora",
  "status": "Reported",
  "date_of_birth": "1988-11-25",
  "place_of_birth": "Yogyakarta",
  "nationality": "Indonesian",
  "phone_number": "+628123456786",
  "email": "jane@example.com",
  "address": "Yogyakarta, Indonesia"
}
```

```

        "address": "Medan, Indonesia",
        "height": 160,
        "weight": 50,
        "eye_color": "Brown",
        "hair_color": "Black",
        "distinguishing_marks": null,
        "has_criminal_record": false,
        "risk_level": "medium",
        "is_confidential": false,
        "created_at": "2025-12-12T11:00:00Z",
        "updated_at": "2025-12-12T11:00:00Z"
    },
    {
        "id": 1,
        "name": "John Doe",
        "case_name": "Data Breach",
        "investigator": "Solehun",
        "agency": "Trikora",
        "status": "Witness",
        "date_of_birth": "1995-01-01",
        "place_of_birth": "Medan",
        "nationality": "Indonesian",
        "phone_number": "+628123456785",
        "email": "john@example.com",
        "address": "Medan, Indonesia",
        "height": 170,
        "weight": 65,
        "eye_color": "Brown",
        "hair_color": "Black",
        "distinguishing_marks": null,
        "has_criminal_record": false,
        "risk_level": "low",
        "is_confidential": false,
        "created_at": "2025-12-11T08:00:00Z",
        "updated_at": "2025-12-11T08:00:00Z"
    }
],
{
    "total": 21,
    "page": 1,
    "size": 10
}

```

Note:

- Data diurutkan dari **terbaru ke terlama** berdasarkan ID (ID terbesar = terbaru, ID terkecil = terlama)
- Suspect dengan id: 5 adalah yang terbaru (muncul pertama)
- Suspect dengan id: 1 adalah yang terlama (muncul terakhir)
- Status values: "Witness" (blue tag), "Reported" (yellow tag), "Suspected" (orange tag), "Suspect" (red tag), "Defendant" (dark red tag)

Example Requests:

```

GET /api/v1/suspects/?skip=0&limit=10
GET /api/v1/suspects/?search=John
GET /api/v1/suspects/?status=Suspect&limit=20
GET /api/v1/suspects/?skip=10&limit=5&search>Data%20Breach

```

Error Responses:

401 Unauthorized:

```

{
    "status": 401,
    "message": "Invalid token",
    "data": null
}

```

500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

2. Create Suspect

Endpoint: POST /api/v1/suspects/create-suspect

Description: Create a new suspect record. Supports file upload for evidence files.

Headers:

- Authorization: Bearer <access_token>
- Content-Type: multipart/form-data (when evidence file is included) or application/json

Request Body (multipart/form-data or JSON):

Form Fields Mapping:

UI Field	API Field	Type	Required	Description
Case Name (dropdown)	case_id	integer	Yes	Case ID selected from dropdown
Person of Interest (radio)	is_unknown	boolean	No	true for "Unknown Person", false for "Person Name" (default: false)
Person Name	name	string	Yes	Full name of the suspect
Status (dropdown)	status	string	Yes	Suspect status: "Witness", "Reported", "Suspected", "Suspect", "Defendant"
Evidence ID (radio: Generating)	evidence_id_generating	boolean	No	true if Evidence ID is auto-generated
Evidence ID (radio: Manual Input)	evidence_id_manual	boolean	No	true if Evidence ID is manually input
Evidence ID (text input)	evidence_id	string	No	Manual Evidence ID (required if evidence_id_manual is true)
Evidence Source (dropdown)	evidence_source	string	Yes	Evidence source (e.g., "Handphone", "CCTV")
Evidence (file upload)	evidence_file	file	No	Evidence file to upload

Example Request (multipart/form-data):

```
case_id: 1
is_unknown: false
name: "John Doe"
status: "Suspect"
evidence_id_generating: true
evidence_source: "Handphone"
evidence_file: [file]
```

Example Request (JSON - without file upload):

```
{
  "case_id": 1,
  "is_unknown": false,
  "name": "John Doe",
  "case_name": "Data Breach",
  "investigator": "Solehun",
  "status": "Suspect",
  "evidence_id": "32342223",
  "evidence_source": "Handphone",
  "date_of_birth": "1995-01-01",
  "place_of_birth": "Medan",
  "nationality": "Indonesian",
  "phone_number": "+628123456785",
  "email": "john@example.com",
  "address": "Medan, Indonesia",
  "height": 170,
  "weight": 65,
  "eye_color": "Brown",
  "hair_color": "Black",
  "has_criminal_record": false,
  "risk_level": "low"
}
```

Note:

- If `evidence_file` is provided, use `multipart/form-data` content type
- If `evidence_id_generating` is true, the system will auto-generate the Evidence ID
- If `evidence_id_manual` is true, the `evidence_id` field must be provided
- `case_id` is required and should be selected from the cases dropdown (use `GET /api/v1/cases/get-all-cases` to get available cases)
- `evidence_source` should be selected from evidence sources dropdown (use `GET /api/v1/evidence/sources` to get available sources)
- `status` should be selected from statuses dropdown (use `GET /api/v1/suspects/statuses` to get available statuses)

Response (201 Created):

```
{
  "status": 201,
  "message": "Suspect created successfully",
  "data": {
    "id": 6,
    "name": "John Doe",
    "case_name": "Data Breach",
    "investigator": "Solehun",
    "status": "Suspect",
    "created_at": "2025-12-16T10:00:00Z",
    "updated_at": "2025-12-16T10:00:00Z"
  }
}
```

Error Responses:

400 Bad Request:

```
{
  "status": 400,
  "message": "Validation error",
  "data": null
}
```

401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

3. Get Suspect by ID

Endpoint: GET /api/v1/suspects/get-suspect-by-id

Description: Get details of a specific suspect.

Headers: Authorization: Bearer <access_token>

Query Parameters:

Parameter	Type	Required	Description
suspect_id	integer	Yes	Unique suspect identifier

Response (200 OK):

```
{  
  "status": 200,  
  "message": "Suspect retrieved successfully",  
  "data": {  
    "id": 1,  
    "name": "John Doe",  
    "case_name": "Data Breach",  
    "investigator": "Solehun",  
    "status": "Witness",  
    "date_of_birth": "1995-01-01",  
    "place_of_birth": "Medan",  
    "nationality": "Indonesian",  
    "phone_number": "+628123456785",  
    "email": "john@example.com",  
    "address": "Medan, Indonesia",  
    "height": 170,  
    "weight": 65,  
    "eye_color": "Brown",  
    "hair_color": "Black",  
    "distinguishing_marks": null,  
    "has_criminal_record": false,  
    "risk_level": "low",  
    "is_confidential": false,  
    "created_at": "2025-12-11T08:00:00Z",  
    "updated_at": "2025-12-11T08:00:00Z"  
  }  
}
```

Error Responses:

404 Not Found:

```
{  
  "status": 404,  
  "message": "Suspect with ID {suspect_id} not found",  
  "data": null  
}
```

401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

4. Update Suspect

Endpoint: PUT /api/v1/suspects/update-suspect

Description: Update suspect information. Uses the same form as Create Suspect. All fields are optional (partial update). Supports file upload for evidence files.

Headers:

- Authorization: Bearer <access_token>
- Content-Type: multipart/form-data (when evidence file is included) or application/json

Request Body (multipart/form-data or JSON - all fields optional, but suspect_id is required):

Form Fields Mapping (same as Create Suspect):

UI Field	API Field	Type	Required	Description
Case Name (dropdown)	case_id	integer	No	Case ID selected from dropdown
Person of Interest (radio)	is_unknown	boolean	No	true for "Unknown Person", false for "Person Name"
Person Name	name	string	No	Full name of the suspect
Status (dropdown)	status	string	No	Suspect status: "Witness", "Reported", "Suspected", "Suspect", "Defendant"
Evidence ID (radio: Generating)	evidence_id_generating	boolean	No	true if Evidence ID is auto-generated
Evidence ID (radio: Manual Input)	evidence_id_manual	boolean	No	true if Evidence ID is manually input
Evidence ID (text input)	evidence_id	string	No	Manual Evidence ID (required if evidence_id_manual is true)
Evidence Source (dropdown)	evidence_source	string	No	Evidence source (e.g., "Handphone", "CCTV")
Evidence (file upload)	evidence_file	file	No	Evidence file to upload
Investigator	investigator	string	No	Investigator name
Date of Birth	date_of_birth	date	No	Date of birth (YYYY-MM-DD)
Place of Birth	place_of_birth	string	No	Place of birth
Nationality	nationality	string	No	Nationality
Phone Number	phone_number	string	No	Phone number
Email	email	string	No	Email address
Address	address	string	No	Address

UI Field	API Field	Type	Required	Height in cm
Weight	weight	integer	No	Weight in kg
Eye Color	eye_color	string	No	Eye color
Hair Color	hair_color	string	No	Hair color
Distinguishing Marks	distinguishing_marks	string	No	Distinguishing marks
Has Criminal Record	has_criminal_record	boolean	No	Has criminal record
Criminal Record Details	criminal_record_details	string	No	Criminal record details
Risk Level	risk_level	string	No	Risk level: "low", "medium", "high"
Risk Assessment Notes	risk_assessment_notes	string	No	Risk assessment notes
Is Confidential	is_confidential	boolean	No	Is confidential
Notes	notes	string	No	Additional notes

Example Request (multipart/form-data):

```
case_id: 1
is_unknown: false
name: "Updated Name"
status: "Defendant"
evidence_id_generating: true
evidence_source: "Handphone"
evidence_file: [file]
risk_level: "high"
notes: "Updated notes"
```

Example Request (JSON - without file upload):

```
{
  "suspect_id": 1,
  "case_id": 1,
  "is_unknown": false,
  "name": "Updated Name",
  "case_name": "Data Breach",
  "investigator": "Solehun",
  "status": "Defendant",
  "evidence_id": "32342223",
  "evidence_source": "Handphone",
  "date_of_birth": "1995-01-01",
  "place_of_birth": "Medan",
  "nationality": "Indonesian",
  "phone_number": "+628123456785",
  "email": "updated@example.com",
  "address": "Medan, Indonesia",
  "height": 170,
  "weight": 65,
  "eye_color": "Brown",
  "hair_color": "Black",
  "has_criminal_record": false,
  "risk_level": "high",
  "notes": "Updated notes"
}
```

Note:

- If evidence_file is provided, use multipart/form-data content type
- All fields are optional (partial update)
- If evidence_id_generating is true, the system will auto-generate the Evidence ID

- If `evidence_id_manual` is true, the `evidence_id` field must be provided
- `case_id` should be selected from the cases dropdown (use `GET /api/v1/cases/get-all-cases` to get available cases)
- `evidence_source` should be selected from evidence sources dropdown (use `GET /api/v1/evidence/sources` to get available sources)
- `status` should be selected from statuses dropdown (use `GET /api/v1/suspects/statuses` to get available statuses)

Response (200 OK):

```
{
  "status": 200,
  "message": "Suspect updated successfully",
  "data": {
    "id": 1,
    "name": "Updated Name",
    "status": "Defendant",
    "risk_level": "high",
    "updated_at": "2025-12-16T15:00:00Z"
  }
}
```

Error Responses:

400 Bad Request:

```
{
  "status": 400,
  "message": "Validation error",
  "data": null
}
```

404 Not Found:

```
{
  "status": 404,
  "message": "Suspect with ID {suspect_id} not found",
  "data": null
}
```

401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

5. Delete Suspect

Endpoint: `DELETE /api/v1/suspects/delete-suspect`

Description: Delete a suspect record.

Headers: `Authorization: Bearer <access_token>`

Query Parameters:

Parameter	Type	Required	Description
			Unique suspect

Parameter	Type	Yes Required	Description
-----------	------	-----------------	-------------

Response (200 OK):

```
{  
  "status": 200,  
  "message": "Suspect deleted successfully"  
}
```

Error Responses:

404 Not Found:

```
{  
  "status": 404,  
  "message": "Suspect with ID {suspect_id} not found",  
  "data": null  
}
```

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

6. Get Suspect Statuses

Endpoint: GET /api/v1/suspects/statuses

Description: Get list of available suspect statuses (for dropdown selection in forms).

Headers: Authorization: Bearer <access_token>

Response (200 OK):

```
{
  "status": 200,
  "message": "Suspect statuses retrieved successfully",
  "data": [
    {
      "value": "Witness",
      "label": "Witness",
      "color": "green"
    },
    {
      "value": "Suspected",
      "label": "Suspected",
      "color": "orange"
    },
    {
      "value": "Reported",
      "label": "Reported",
      "color": "yellow"
    },
    {
      "value": "Suspect",
      "label": "Suspect",
      "color": "red"
    },
    {
      "value": "Defendant",
      "label": "Defendant",
      "color": "dark-red"
    }
  ]
}
```

Error Responses:

401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

7. Export Suspect Details PDF

Endpoint: GET /api/v1/suspects/export-suspect-details-pdf

Description: Export comprehensive suspect details as PDF document. Includes suspect information, personal details, case information, risk assessment, and related data.

Headers: Authorization: Bearer <access_token>

Query Parameters:

Parameter	Type	Required	Description
suspect_id	integer	Yes	Unique suspect identifier

Response (200 OK):

- Content-Type: application/pdf
- Content-Disposition: attachment; filename="suspect_details_{suspect_id}_{timestamp}.pdf"

The response is a PDF file that can be downloaded directly.

Error Responses:

404 Not Found:

```
{  
  "status": 404,  
  "message": "Suspect with ID {suspect_id} not found",  
  "data": null  
}
```

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

Example Request:

```
GET /api/v1/suspects/export-suspect-details-pdf?suspect_id=1  
Authorization: Bearer {access_token}
```

Note: This endpoint generates a comprehensive PDF report including all suspect information, personal details, case association, risk level assessment, and related evidence.

7. Get Suspect Statistics

Endpoint: GET /api/v1/suspects/statistics

Description: Get summary statistics for Suspect Management dashboard (Total Person, Total Evidence).

Headers: Authorization: Bearer <access_token>

Response (200 OK):

```
{  
  "status": 200,  
  "message": "Statistics retrieved successfully",  
  "data": {  
    "total_persons": 21,  
    "total_evidence": 21  
  }  
}
```

Error Responses:

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

8. Get Evidence by Suspect ID

Endpoint: GET /api/v1/suspects/evidence

Description: Get all evidence associated with a specific suspect.

Headers: Authorization: Bearer <access_token>

Query Parameters:

Parameter	Type	Required	Description
suspect_id	integer	Yes	Unique suspect identifier

Response (200 OK):

```
{  
  "status": 200,  
  "message": "Evidence retrieved successfully",  
  "data": [  
    {  
      "id": 1,  
      "evidence_id": "32342223",  
      "evidence_number": "EVID-001",  
      "title": "Handphone A",  
      "thumbnail": "/data-thumbnails/evidence_1_map.png",  
      "summary": "Summary 33242352",  
      "description": "GPS handphone suspect menyatakan posisi yang berada di TKP pada saat kejadian.",  
      "status": "Collected",  
      "created_at": "2025-12-20T10:00:00Z"  
    },  
    {  
      "id": 2,  
      "evidence_id": "32342224",  
      "evidence_number": "EVID-002",  
      "title": "Phone Screen",  
      "thumbnail": "/data-thumbnails/evidence_2_phone.png",  
      "summary": "Summary 33242352",  
      "description": "Terdapat dialog seputar pembakaran dengan suspect lain.",  
      "status": "Collected",  
      "created_at": "2025-12-20T11:00:00Z"  
    }  
  ],  
  "total": 12  
}
```

Error Responses:

404 Not Found:

```
{  
  "status": 404,  
  "message": "Suspect with ID {suspect_id} not found",  
  "data": null  
}
```

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

9. Add Evidence to Suspect

Endpoint: POST /api/v1/suspects/evidence

Description: Add new evidence to an existing suspect. Supports file upload for evidence files.

Headers:

- Authorization: Bearer <access_token>
- Content-Type: multipart/form-data

Request Body (multipart/form-data - all fields required, including `suspect_id`):

Field	Type	Required	Description
suspect_id	integer	Yes	Unique suspect identifier
evidence_id	string	No	Evidence ID (if manual input)
evidence_source	string	Yes	Evidence source (e.g., "Handphone", "CCTV")
evidence_file	file	Yes	Evidence file to upload
summary	string	No	Evidence summary
description	string	No	Evidence description

Response (201 Created):

```
{  
  "status": 201,  
  "message": "Evidence added to suspect successfully",  
  "data": {  
    "id": 13,  
    "evidence_id": "32342225",  
    "evidence_number": "EVID-013",  
    "title": "New Evidence",  
    "summary": "Summary 33242353",  
    "description": "New evidence description",  
    "suspect_id": 1,  
    "created_at": "2025-12-20T12:00:00Z"  
  }  
}
```

Error Responses:

400 Bad Request:

```
{  
  "status": 400,  
  "message": "Validation error: {error_details}",  
  "data": null  
}
```

404 Not Found:

```
{  
  "status": 404,  
  "message": "Suspect with ID {suspect_id} not found",  
  "data": null  
}
```

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

10. Update Suspect Notes

Endpoint: PUT /api/v1/suspects/notes

Description: Update notes for a specific suspect.

Headers:

- Authorization: Bearer <access_token>
- Content-Type: application/json

Request Body (all fields required, including suspect_id):

```
{  
    "suspect_id": 1,  
    "notes": "Dokumentasi detail, isolasi jaringan, serta pencatatan chain of custody sangat penting untuk memastikan integritas bukti  
}
```

Response (200 OK):

```
{  
    "status": 200,  
    "message": "Suspect notes updated successfully",  
    "data": {  
        "id": 1,  
        "notes": "Dokumentasi detail, isolasi jaringan, serta pencatatan chain of custody sangat penting untuk memastikan integritas bukti  
        "updated_at": "2025-12-20T13:00:00Z"  
    }  
}
```

Error Responses:

400 Bad Request:

```
{  
    "status": 400,  
    "message": "Validation error",  
    "data": null  
}
```

404 Not Found:

```
{  
    "status": 404,  
    "message": "Suspect with ID {suspect_id} not found",  
    "data": null  
}
```

401 Unauthorized:

```
{  
    "status": 401,  
    "message": "Invalid token",  
    "data": null  
}
```

500 Internal Server Error:

```
{  
    "status": 500,  
    "message": "Unexpected server error, please try again later",  
    "data": null  
}
```

11. Save Suspect Summary

Endpoint: POST /api/v1/suspects/save-summary

Description: Save or update summary for a specific suspect.

Headers:

- Authorization: Bearer <access_token>
- Content-Type: application/json

Request Body:

```
{  
  "suspect_id": 1,  
  "summary": "Suspect teridentifikasi melalui analisis GPS handphone yang menunjukkan posisi di TKP pada saat kejadian. Terdapat buk  
}  
[ ] [ ] [ ]
```

Response (200 OK):

```
{  
  "status": 200,  
  "message": "Suspect summary saved successfully",  
  "data": {  
    "suspect_id": 1,  
    "suspect_name": "John Doe",  
    "summary": "Suspect teridentifikasi melalui analisis GPS handphone yang menunjukkan posisi di TKP pada saat kejadian. Terdapat b  
    "updated_at": "2025-12-20T14:30:00Z"  
  }  
}  
[ ] [ ] [ ]
```

Error Responses:

400 Bad Request:

```
{  
  "status": 400,  
  "message": "Summary cannot be empty",  
  "data": null  
}
```

404 Not Found:

```
{  
  "status": 404,  
  "message": "Suspect with ID {suspect_id} not found",  
  "data": null  
}
```

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Failed to save suspect summary: {error_message}",  
  "data": null  
}
```

☰ Person Management (Legacy)

Base Path

/api/v1/persons

1. Create Person

Endpoint: POST /api/v1/persons/create-person

Description: Add a person of interest (suspect/witness) to a case. Can include initial evidence.

Headers:

- Authorization: Bearer <access_token>
- Content-Type: application/json

Request Body:

```
{  
    "case_id": 1,  
    "name": "Mandeep Singh",  
    "is_unknown": false,  
    "custody_stage": "In Custody",  
    "evidence_id": "342344442",  
    "evidence_source": "Handphone",  
    "evidence_summary": "GPS handphone suspect menyatakan posisi yang berada di TKP pada saat kejadian.",  
    "investigator": "Solehun",  
    "created_by": "admin@gmail.com"  
}
```

Response (201 Created):

```
{  
    "status": 201,  
    "message": "Person created successfully",  
    "data": {  
        "id": 1,  
        "name": "Mandeep Singh",  
        "is_unknown": false,  
        "custody_stage": "In Custody",  
        "evidence_id": "342344442",  
        "evidence_source": "Handphone",  
        "evidence_summary": "GPS handphone suspect menyatakan posisi yang berada di TKP pada saat kejadian.",  
        "investigator": "Solehun",  
        "case_id": 1,  
        "created_by": "admin@gmail.com",  
        "created_at": "2025-12-20T10:00:00Z",  
        "updated_at": "2025-12-20T10:00:00Z"  
    }  
}
```

Note: This endpoint automatically creates a case log entry when a person is added.

Error Responses:

400 Bad Request:

```
{  
    "status": 400,  
    "message": "Validation error",  
    "data": null  
}
```

404 Not Found (Case not found):

```
{  
    "status": 404,  
    "message": "Case with ID {case_id} not found",  
    "data": null  
}
```

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

2. Get Person by ID

Endpoint: GET /api/v1/persons/get-person

Description: Get details of a specific person of interest.

Headers: Authorization: Bearer <access_token>

Query Parameters:

Parameter	Type	Required	Description
person_id	integer	Yes	Unique person identifier

Response (200 OK):

```
{  
  "status": 200,  
  "message": "Person retrieved successfully",  
  "data": {  
    "id": 1,  
    "name": "Mandeep Singh",  
    "is_unknown": false,  
    "custody_stage": "In Custody",  
    "evidence_id": "342344442",  
    "evidence_source": "Handphone",  
    "evidence_summary": "GPS handphone suspect menyatakan posisi yang berada di TKP pada saat kejadian.",  
    "investigator": "Solehun",  
    "case_id": 1,  
    "created_by": "admin@gmail.com",  
    "created_at": "2025-12-20T10:00:00Z",  
    "updated_at": "2025-12-20T10:00:00Z"  
  }  
}
```

Error Responses:

404 Not Found:

```
{  
  "status": 404,  
  "message": "Person with ID {person_id} not found",  
  "data": null  
}
```

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

3. Get Persons by Case

Endpoint: GET /api/v1/persons/get-persons-by-case

Description: Get all persons of interest associated with a specific case.

Headers: Authorization: Bearer <access_token>

Query Parameters:

Parameter	Type	Required	Description
case_id	integer	Yes	Unique case identifier

Query Parameters:

Parameter	Type	Required	Default	Description
skip	integer	No	0	Number of records to skip
limit	integer	No	10	Number of records per page (max: 100)

Response (200 OK):

```
{
  "status": 200,
  "message": "Persons retrieved successfully",
  "data": [
    {
      "id": 1,
      "name": "Mandeep Singh",
      "is_unknown": false,
      "custody_stage": "In Custody",
      "evidence_id": "342344442",
      "evidence_source": "Handphone",
      "evidence_summary": "GPS handphone suspect menyatakan posisi...",
      "investigator": "Solehun",
      "case_id": 1,
      "created_at": "2025-12-20T10:00:00Z",
      "updated_at": "2025-12-20T10:00:00Z"
    },
    {
      "id": 2,
      "name": "Nathalie",
      "is_unknown": false,
      "custody_stage": "Released",
      "evidence_id": "342344444",
      "evidence_source": "CCTV",
      "evidence_summary": "Berdasarkan rekaman CCTV tanggal 10 September 2025...",
      "investigator": "Solehun",
      "case_id": 1,
      "created_at": "2025-12-20T11:00:00Z",
      "updated_at": "2025-12-20T11:00:00Z"
    }
  ],
  "total": 2,
  "page": 1,
  "size": 10
}
```

Error Responses:

404 Not Found:

```
{
  "status": 404,
  "message": "Case with ID {case_id} not found",
  "data": null
}
```

401 Unauthorized:

```
{
  "status": 401,
  "message": "Invalid token",
  "data": null
}
```

500 Internal Server Error:

```
{
  "status": 500,
  "message": "Unexpected server error, please try again later",
  "data": null
}
```

4. Update Person

Endpoint: PUT /api/v1/persons/update-person

Description: Update person information. All fields are optional (partial update).

Headers:

- Authorization: Bearer <access_token>
- Content-Type: application/json

Request Body (all fields optional, but person_id is required):

```
{  
  "person_id": 1,  
  "name": "Updated Name",  
  "custody_stage": "Released",  
  "evidence_summary": "Updated evidence summary",  
  "investigator": "New Investigator"  
}
```

Response (200 OK):

```
{  
  "status": 200,  
  "message": "Person updated successfully",  
  "data": {  
    "id": 1,  
    "name": "Updated Name",  
    "custody_stage": "Released",  
    "evidence_summary": "Updated evidence summary",  
    "investigator": "New Investigator",  
    "updated_at": "2025-12-20T15:00:00Z"  
  }  
}
```

Error Responses:

400 Bad Request:

```
{  
  "status": 400,  
  "message": "Validation error",  
  "data": null  
}
```

404 Not Found:

```
{  
  "status": 404,  
  "message": "Person with ID {person_id} not found",  
  "data": null  
}
```

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

5. Delete Person

Endpoint: DELETE /api/v1/persons/delete-person

Description: Delete a person of interest and all associated data.

Headers: Authorization: Bearer <access_token>

Query Parameters:

Parameter	Type	Required	Description
person_id	integer	Yes	Unique person identifier

Response (200 OK):

```
{  
  "status": 200,  
  "message": "Person deleted successfully"  
}
```

Error Responses:

404 Not Found:

```
{  
  "status": 404,  
  "message": "Person with ID {person_id} not found",  
  "data": null  
}
```

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Invalid token",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

☒ Error Responses

Standard Error Format

All error responses follow this structure:

```
{  
  "status": <http_status_code>,  
  "message": "<error_message>",  
  "data": null  
}
```

Common HTTP Status Codes

Status Code	Description	Example
200	Success	Request completed successfully
201	Created	Resource created successfully
400	Bad Request	Invalid request parameters
401	Unauthorized	Missing or invalid authentication token
403	Forbidden	Insufficient permissions (RBAC)
404	Not Found	Resource not found
409	Conflict	Resource already exists (e.g., duplicate case number)
500	Internal Server Error	Unexpected server error

Error Response Examples

401 Unauthorized:

```
{  
  "status": 401,  
  "message": "Unauthorized",  
  "data": null  
}
```

403 Forbidden (Admin Only):

```
{  
  "status": 403,  
  "message": "Access denied. Admin role required.",  
  "data": null  
}
```

404 Not Found:

```
{  
  "status": 404,  
  "message": "Case with ID 999 not found",  
  "data": null  
}
```

409 Conflict:

```
{  
  "status": 409,  
  "message": "Case number 'REG/123/2024/DRKUM' already exists",  
  "data": null  
}
```

500 Internal Server Error:

```
{  
  "status": 500,  
  "message": "Unexpected server error, please try again later",  
  "data": null  
}
```

Role-Based Access Control (RBAC)

Overview

The API implements Role-Based Access Control (RBAC) to restrict data access based on user roles.

Roles

Role	Description	Access Level
admin	Administrator	Full access to all data
user	Regular user	Limited access (own data only)

Role Mapping from Tags

When creating a user, the role is automatically mapped from the tag:

Tag	Role
"Admin"	admin
"Investigator"	user
"Ahli Forensic"	user
Other tags	user (default)

Access Rules

Case Management

Get All Cases (GET /api/v1/cases/get-all-cases):

- **Admin:** Sees all cases in the database
- **User:** Only sees cases where `main_investigator` matches their `fullname`

Example:

- User with `fullname = "Investigator"` only sees cases with `main_investigator = "Investigator"`
- User with `fullname = "Ahli Forensic"` only sees cases with `main_investigator = "Ahli Forensic"`

User Management

Create User (POST /api/v1/auth/create-user):

- **Admin:** ✅ Can create users
- **User:** ❌ Cannot create users (403 Forbidden)

Important Notes

1. **Matching Criteria:** User role filtering uses exact match: `Case.main_investigator == User.fullname`
 - Case-sensitive
 - Must match exactly (including spaces and special characters)
2. **Admin Bypass:** Admin users bypass all filters and see all data
3. **Token Validation:** All protected endpoints validate:
 - Token signature
 - Token expiration
 - User active status
 - App identifier (for multi-app scenarios)

Additional Notes

Date Formats

- **API Response:** `created_at` in case list uses format "DD/MM/YYYY" (e.g., "12/12/2025")
- **API Request/Response (ISO):** Other datetime fields use ISO 8601 format (e.g., "2025-12-12T10:30:00Z")

Pagination

- Default `limit:10`
- Maximum `limit:100`
- `page` is calculated as: `skip // limit + 1`
- `total` represents total records matching the filter (before pagination)

Search Functionality

- Search is case-insensitive
- Searches across multiple fields (title, investigator, agency, etc.)
- Uses `ILIKE` pattern matching (SQL)

Case Number Generation

- Auto-generated format: `{INITIALS}-{DDMMYY}-{SEQUENCE}`
 - Example: "BUR-121225-0001"
 - INITIALS: First 3 words of title
 - DDMMYY: Date in format DDMMYY
 - SEQUENCE: 4-digit sequence number

🔗 Related Documentation

- [Multi-App Authentication Guide](#)
 - [Role-Based Access Control Guide](#)
 - [Postman Testing Guide](#)
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