



Spécification de l'API: Peekaboo

Version : 1.0.0

Description : API pour gérer les oiseaux, leurs historiques de localisation et l'authentification des utilisateurs.

Serveur : `http://localhost:8010`



/birds

| Méthode | Description | Réponses HTTP |
|---------|--|-------------------------|
| GET | Récupère la liste de tous les oiseaux. | 200 - Opération réussie |



/user/{userId}/birds

| Méthode | Description | Réponses HTTP |
|---------|--|---|
| GET | Récupère tous les oiseaux appartenant à un utilisateur donné | 200 - Liste d'oiseaux 404 - Utilisateur non trouvé |

Paramètre de chemin :

| Nom | Type | Obligatoire | Description |
|--------|---------|-------------|---------------------|
| userId | integer | ✓ | ID de l'utilisateur |



/bird/{gpsId}/locations

| Méthode | Description | Réponses HTTP |
|---------|---|--|
| POST | Met à jour les positions d'un oiseau via son GPS ID | 200 - Mise à jour réussie 400 - Requête invalide 404 - Oiseau non trouvé |

Paramètre de chemin :

| Nom | Type | Obligatoire | Description |
|-------|--------|-------------|-----------------------------|
| gpsId | string | ✓ | Identifiant GPS de l'oiseau |

Corps de la requête :

- Un objet contenant un tableau de mises à jour de localisation (`locations[]`)

`/bird/{id}/location`

| Méthode | Description | Réponses HTTP |
|---------|--|---|
| GET | Récupère la dernière position connue d'un oiseau | 200 - Dernière position 404 - Oiseau ou historique de localisation introuvable |

Paramètre de chemin :

| Nom | Type | Obligatoire | Description |
|-----|---------|-------------|----------------|
| id | integer | ✓ | ID de l'oiseau |

`/bird/{id}/path`

| Méthode | Description | Réponses HTTP |
|---------|---|--|
| GET | Récupère l'historique complet des positions de l'oiseau donné | 200 - Historique récupéré 404 - Oiseau non trouvé |

Paramètre de chemin :

| Nom | Type | Obligatoire | Description |
|-----|---------|---|----------------|
| id | integer |  | ID de l'oiseau |

/login

| Méthode | Description | Réponses HTTP |
|---------|---|--|
| POST | Authentifie un utilisateur et retourne un JWT | 200 - Succès (token JWT) 401 - Identifiants invalides |

Corps de la requête :

- email (string)
- password (string)

/register

| Méthode | Description | Réponses HTTP |
|---------|----------------------------------|---|
| POST | Enregistre un nouvel utilisateur | 201 - Enregistrement réussi 400 - Données manquantes |

Corps de la requête :

- email (string)
- password (string)

Schéma :

```
paths:
  /birds:
    get:
      summary: Get All Birds
      description: Retrieves a list of all birds.
      responses:
        "200":
          description: Successful operation
          content:
            application/json:
              schema:
                type: array
                items:
                  $ref: '#/components/schemas/Bird'

  /user/{userId}/birds:
    get:
      summary: Get Birds for a Specific User
      description: Retrieves all birds owned by a given user.
      parameters:
        - name: userId
          in: path
          required: true
          schema:
            type: integer
      responses:
        "200":
          description: List of birds for the user.
          content:
            application/json:
              schema:
                type: array
                items:
                  $ref: '#/components/schemas/Bird'
        "404":
          description: User not found.
          content:
            application/json:
              schema:
                type: object
                properties:
                  error:
                    type: string
                    example: "User not found"

  /bird/{gpsId}/locations:
    post:
      summary: Update Bird Locations
      description: Updates the location of a bird identified by its GPS ID.
      parameters:
        - name: gpsId
```

```

    in: path
    required: true
    schema:
      type: string
  requestBody:
    description: An object containing an array of location updates.
    required: true
    content:
      application/json:
        schema:
          type: object
          required:
            - locations
          properties:
            locations:
              type: array
              items:
                $ref: '#/components/schemas/LocationUpdate'
  responses:
    "200":
      description: Locations updated successfully.
      content:
        application/json:
          schema:
            type: object
            properties:
              message:
                type: string
            example: "Locations updated successfully"
    "400":
      description: Invalid payload.
      content:
        application/json:
          schema:
            type: object
            properties:
              error:
                type: string
            example: "Invalid payload"
    "404":
      description: Bird not found.
      content:
        application/json:
          schema:
            type: object
            properties:
              error:
                type: string
            example: "Bird not found"

/bird/{id}/location:
  get:

```

summary: Get Last Location of a Bird
description: Retrieves the most recent location for the specified bird.
parameters:
 - name: id
 in: path
 required: true
 schema:
 type: integer
responses:
 "200":
 description: Last location found.
 content:
 application/json:
 schema:
 \$ref: '#/components/schemas/Location'
 "404":
 description: Bird or location history not found.
 content:
 application/json:
 schema:
 type: object
 properties:
 error:
 type: string
 example: "Bird not found" # or "No location history four

/bird/{id}/path:

get:

summary: Get Bird's Path (Location History)
description: Retrieves the complete ordered location history for a spec
parameters:
 - name: id
 in: path
 required: true
 schema:
 type: integer
responses:
 "200":
 description: Location history retrieved successfully.
 content:
 application/json:
 schema:
 type: array
 items:
 \$ref: '#/components/schemas/Location'
 "404":
 description: Bird not found.
 content:
 application/json:
 schema:
 type: object
 properties:

```

        error:
          type: string
          example: "Bird not found"

/login:
  post:
    summary: User Login
    description: Authenticates a user and returns a JWT token.
    requestBody:
      description: User credentials.
      required: true
      content:
        application/json:
          schema:
            type: object
            required:
              - email
              - password
            properties:
              email:
                type: string
                example: "user@example.com"
              password:
                type: string
                example: "yourpassword"
    responses:
      "200":
        description: Login successful.
        content:
          application/json:
            schema:
              type: object
            properties:
              token:
                type: string
                example: "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..."
      "401":
        description: Invalid credentials.
        content:
          application/json:
            schema:
              type: object
            properties:
              error:
                type: string
                example: "Invalid credentials"

/register:
  post:
    summary: User Registration
    description: Registers a new user.
    requestBody:

```

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description: User registration data.
required: true
content:
  application/json:
    schema:
      type: object
      required:
        - email
        - password
      properties:
        email:
          type: string
          example: "user@example.com"
        password:
          type: string
          example: "yourpassword"
responses:
  "201":
    description: User registered successfully.
    content:
      application/json:
        schema:
          type: object
          properties:
            message:
              type: string
              example: "User registered successfully"
  "400":
    description: Missing email or password.
    content:
      application/json:
        schema:
          type: object
          properties:
            error:
              type: string
              example: "Email and password are required"

components:
  schemas:
    Bird:
      type: object
      properties:
        id:
          type: integer
          example: 1
        name:
          type: string
          example: "Sparrow"
        latitude:
          type: number
          format: float
```



```
    example: 40.7128
longitude:
  type: number
  format: float
  example: -74.0060
owner:
  type: string
  description: Username of the bird owner.
  example: "user@example.com"
gps_id:
  type: string
  example: "ABC123"
Location:
  type: object
  properties:
    latitude:
      type: number
      format: float
      example: 40.7128
    longitude:
      type: number
      format: float
      example: -74.0060
    timestamp:
      type: string
      format: date-time
      example: "2025-03-31 12:34:56"
LocationUpdate:
  type: object
  properties:
    latitude:
      type: number
      format: float
      example: 40.7128
    longitude:
      type: number
      format: float
      example: -74.0060
User:
  type: object
  properties:
    id:
      type: integer
      example: 1
    email:
      type: string
      example: "user@example.com"
    password:
      type: string
      description: Hashed password.
      example: "$2y$10$..."
    roles:
```

```
type: array
items:
  type: string
example:
  - "ROLE_USER"
```