

## Documentation API - Edusign IoT (Django + JWT)

Cette documentation couvre l'ensemble des routes de l'API pour l'application Edusign IoT :

- Authentification JWT (inscription, login, refresh)
  - CRUD complet sur les ressources (School, Student, Teacher, Course, etc.)
  - Exemples de requêtes Postman
- 

## Base URL

`http://127.0.0.1:8000/api/`

---

## Authentification JWT

### 1. Inscription - POST `/api/register/`

Permet de créer un utilisateur avec un rôle et une école associée.

#### Requête Postman

**URL :** `/api/register/`

**Method :** POST **Headers :**

```
{  
  "Content-Type": "application/json"  
}
```

**Body :**

```
{  
  "username": "teacher1",  
  "email": "teacher1@ecole.com",  
  "password": "azerty123",  
  "password2": "azerty123",  
  "role": "teacher",  
  "school": 1  
}
```

---

## 2. Connexion - POST /api/login/

Renvoie un token d'accès (JWT).

**Body :**

```
{  
  "username": "teacher1",  
  "password": "azerty123"  
}
```

## 3. Refresh Token - POST /api/token/refresh/

**Body :**

```
{  
  "refresh": "votre_refresh_token"  
}
```

---

 **Headers requis pour toutes les routes suivantes :**

Authorization: Bearer <access\_token>

Content-Type: application/json

---

## **School**

**GET /api/school/ – Liste toutes les écoles**

**POST /api/school/ – Créer une école**

```
{  
  "name": "Ecole des Hautes Etudes",  
  "address": "123 avenue principale"  
}
```

**GET /api/school/<id>/ – Détail**

**PUT /api/school/<id>/ – Modifier**

```
{  
  "name": "Nouvelle École",
```

```
"address": "Adresse modifiée"
}
```

**DELETE /api/school/<id>/ – Supprimer**

---

## Student

**GET /api/student/ – Liste tous les étudiants**

**POST /api/student/ – Créer un étudiant**

```
{
  "full_name": "Alice Mbala",
  "email": "alice@school.com",
  "qr_code_token": "XYZ123456",
  "school": 1
}
```

**GET /api/student/<id>/**

**PUT /api/student/<id>/**

```
{
  "full_name": "Alice M.",
  "email": "alice@new.com",
  "qr_code_token": "NEW123",
  "school": 1
}
```

**DELETE /api/student/<id>/**

---

## Teacher

**POST /api/teacher/**

```
{
  "full_name": "Mr. Diallo",
  "email": "diallo@school.com",
}
```

```
"school": 1
```

```
}
```

**GET /api/teacher/**

**GET /api/teacher/<id>/**

**PUT /api/teacher/<id>/**

```
{
```

```
"full_name": "Mr. Ibra Diallo",
```

```
"email": "diallo@school.com",
```

```
"school": 1
```

```
}
```

**DELETE /api/teacher/<id>/**

---

## Course

**POST /api/course/**

```
{
```

```
"name": "Mathématiques Terminale",
```

```
"code": "MATH-TER",
```

```
"school": 1,
```

```
"teacher": 1
```

```
}
```

**GET /api/course/**

**GET /api/course/<id>/**

**PUT /api/course/<id>/**

```
{
```

```
"name": "Maths T",
```

```
"code": "MATH-T",
```

```
"school": 1,
```

```
"teacher": 2
```

```
}
```

**DELETE /api/course/<id>/**

---

## Classroom

**POST /api/classroom/**

```
{  
  "name": "Salle A1",  
  "scanner_identifier": "scanner-a1-001",  
  "school": 1  
}
```

**GET /api/classroom/**

**GET /api/classroom/<id>/**

**PUT /api/classroom/<id>/**

**DELETE /api/classroom/<id>/**

---

## Session

**POST /api/session/**

```
{  
  "course": 1,  
  "classroom": 1,  
  "start_time": "2025-04-08T08:00:00Z",  
  "end_time": "2025-04-08T10:00:00Z"  
}
```

**GET /api/session/**

**GET /api/session/<id>/**

**PUT /api/session/<id>/**

**DELETE /api/session/<id>/**

---

## Attendance

**POST /api/attendance/**

```
{  
  "session": 1,  
  "student": 2,  
  "scanned_at": "2025-04-08T08:03:00Z",  
  "status": "late"  
}
```

**GET /api/attendance/**

**GET /api/attendance/<id>/**

**PUT /api/attendance/<id>/**

**DELETE /api/attendance/<id>/**

---

## Récapitulatif des Endpoints

Ressource	Endpoint	Méthodes
Auth	/api/register/	POST
	/api/login/	POST
	/api/token/refresh/	POST
School	/api/school/	GET, POST
	/api/school//	GET, PUT, DELETE
Student	/api/student/	GET, POST
	/api/student//	GET, PUT, DELETE
Teacher	/api/teacher/	GET, POST
	/api/teacher//	GET, PUT, DELETE
Course	/api/course/	GET, POST
	/api/course//	GET, PUT, DELETE

Ressource	Endpoint	Méthodes
Classroom	/api/classroom/	GET, POST
	/api/classroom//	GET, PUT, DELETE
Session	/api/session/	GET, POST
	/api/session//	GET, PUT, DELETE
Attendance	/api/attendance/	GET, POST
	/api/attendance//	GET, PUT, DELETE

---

Tu veux que je te crée un fichier Postman ou Swagger JSON ?