**Endpoints  
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**1. http://localhost:9090/token**

**Method: POST**

**Description**: Authenticates user credentials and returns a JWT token.

**Request Body:**

json

{

"username": "admin",

"password": "admin@123"

}

**Response Body:**

{

    "jwt": "eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiJhZG1pbiIsImV4cCI6MTcxMzI4NjE1NywiaWF0IjoxNzEzMjg1NTU3fQ.GRY-CTbibj0OI03ZIf\_NCbGZKFTFeeUHRUaR\_J0mWLw"

}

**2. http://localhost:9090/api/task1**

**Method: GET**

**Description**: Retrieves user details (username and token expiration) from a valid JWT token.

**Request Header:**

Authorization: Bearer <JWT token>

**Response Body:**

{

"username": "admin",

"expiration": "2024-04-16T13:41:26.000+00:00"

}

**3.** [**http://localhost:9090/api/task2?year=2011**](http://localhost:9090/api/task2?year=2011)

**Method: GET**

**Description**: Fetches data from an external API and calculates the number of draw matches for a given year.

**Request Header:**

Authorization: Bearer <JWT token>

**Response Body:**

"Draw matches count for year 2011: 5"

**Security Configurations  
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**1. JWT Token Configuration**

**Token Expiry**: JWT tokens expire after 10 minutes.

**Secret Key:** Used for token signing and verification.

**2. Role-based Access Control**

**ADMIN Role:** Access to /api/task2 endpoint.

**USER and ADMIN Roles:** Access to /api/task1 endpoint.

**Notes  
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1. **Error Handling**: Exceptions during authentication or API calls are handled and appropriate error responses are returned.
2. **External API**: RestTemplate is used to make HTTP requests to an external football matches API (https://jsonmock.hackerrank.com/api/football\_matches).
3. **Asynchronous Processing**: Response for /api/task2 endpoint is delayed by 3-6 seconds using CompletableFuture.