

# Auth Service API Documentation

## Overview

The Auth Service provides endpoints for user registration, authentication, and password recovery mechanisms using JWT (JSON Web Tokens) for secure authentication.

## Endpoints

### User Registration [POST /api/register]

Register a new user account.

#### Request

```
POST /api/register
Content-Type: application/json

{
  "username": "example_user",
  "email": "user@example.com",
  "password": "password123"
}
```

#### Response

Upon successful registration, the server responds with a status code of **201 Created** and returns the newly created user object.

```
HTTP/1.1 201 Created
Content-Type: application/json

{
  "id": 1,
  "username": "example_user",
  "email": "user@example.com",
  "createdAt": "2024-04-11T12:00:00Z"
}
```

### User Authentication [POST /api/login]

Authenticate a user and generate a JWT token.

## Request

```
POST /api/login
Content-Type: application/json

{
  "username": "example_user",
  "password": "password123"
}
```

## Response

Upon successful authentication, the server responds with a status code of **200 OK** and returns a JWT token.

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "token":
    "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiJleGFtcGxIX3VzZXIiLCJpYXQiOiE2MTkxMjI0MzEsImV4cCI6MTYxOTEyMjQ5MSwibm9sZXMlOiJvbnVFNWUiJdfQ.nhDwe5XdoXUErCDh_uybE07JETug2up5acDY4MkDB6M"
}
```

## Password Recovery [POST /api/recover]

Recover a user's password by sending a recovery email.

## Request

```
POST /api/recover
Content-Type: application/json

{
  "email": "user@example.com"
}
```

## Response

Upon successful password recovery initiation, the server responds with a status code of **200 OK** and a success message.

```
HTTP/1.1 200 OK
Content-Type: application/json
```

```
{  
  "message": "Password recovery email sent successfully"  
}
```