Authentication API Documentation

Welcome to the Authentication API! This guide will help you integrate our user authentication system into your JavaScript or Python applications. We've built this API to handle all the common authentication needs - user registration, login, email verification, password resets, and phone verification via OTP.

Getting Started

Our API provides two separate user types (User1 and User2) with identical functionality. Think of them as different user pools for your application - maybe one for customers and another for admins, or whatever fits your use case.

Base URL: http://your-domain.com

Authentication Flow

All protected endpoints require a JWT token in the Authorization header:

Authorization: Bearer your_jwt_token_here

User Registration

Create a New User

Endpoint: POST /User1/create Of POST /User2/create

Register a new user in your system. The API will automatically send welcome and verification emails.

Request Body

```
{
    "first_name": "John",
    "last_name": "Doe",
```

```
"email": "john.doe@example.com",
    "phone": "+1234567890",
    "country_code": "US",
    "password": "securePassword123"
}
```

JavaScript Example

```
const registerUser = async (userData) ⇒ {
 try {
  const response = await fetch('http://your-domain.com/User1/create', {
   method: 'POST',
   headers: {
    'Content-Type': 'application/json',
   },
   body: JSON.stringify(userData)
  });
  const result = await response.json();
  console.log('User created:', result);
  return result;
 } catch (error) {
  console.error('Registration failed:', error);
}
};
// Usage
const newUser = {
 first_name: "John",
 last_name: "Doe",
 email: "john.doe@example.com",
 phone: "+1234567890",
 country_code: "US",
 password: "securePassword123"
};
```

```
registerUser(newUser);
```

```
import requests
import json
def register_user(user_data):
  url = "http://your-domain.com/User1/create"
  headers = {"Content-Type": "application/json"}
  try:
    response = requests.post(url, headers=headers, json=user_data)
    response.raise_for_status()
    return response.json()
  except requests.exceptions.RequestException as e:
    print(f"Registration failed: {e}")
    return None
# Usage
new_user = {
  "first_name": "John",
  "last_name": "Doe",
  "email": "john.doe@example.com",
  "phone": "+1234567890",
  "country_code": "US",
  "password": "securePassword123"
}
result = register_user(new_user)
print(result)
```

Response

```
{
    "message": "User created successfully",
    "Email": "john.doe@example.com",
    "id": "generated_user_id"
}
```

User Authentication

Login

Endpoint: POST /User1/login Or POST /User2/login

Authenticate a user and receive a JWT token for accessing protected endpoints.

Request Body (Form Data)

- username: User's email address
- password: User's password

```
const loginUser = async (email, password) ⇒ {
  const formData = new FormData();
  formData.append('username', email);
  formData.append('password', password);

try {
  const response = await fetch('http://your-domain.com/User1/login', {
    method: 'POST',
    body: formData
  });

const result = await response.json();

if (result.access_token) {
    // Store token for future requests
```

```
localStorage.setItem('authToken', result.access_token);
  console.log('Login successful');
}

return result;
} catch (error) {
  console.error('Login failed:', error);
}
};

// Usage
loginUser('john.doe@example.com', 'securePassword123');
```

```
import requests
def login_user(email, password):
  url = "http://your-domain.com/User1/login"
  data = {
    'username': email,
    'password': password
  }
  try:
    response = requests.post(url, data=data)
    response.raise_for_status()
    result = response.json()
    if 'access_token' in result:
       # Store token for future requests
       token = result['access_token']
       print("Login successful")
       return token
```

```
except requests.exceptions.RequestException as e:
    print(f"Login failed: {e}")
    return None

# Usage
token = login_user('john.doe@example.com', 'securePassword123')
```

Response

```
{
    "access_token": "eyJhbGciOiJIUzI1NiIsInR5cCl6IkpXVCJ9...",
    "token_type": "bearer"
}
```

User Profile Management

Get User Profile

Endpoint: GET /User1/?id=user_id Or GET /User2/?id=user_id

Retrieve user information by ID. Requires authentication.

```
const getUserProfile = async (userId) \Rightarrow {
  const token = localStorage.getItem('authToken');

try {
  const response = await fetch(`http://your-domain.com/User1/?id=${userId}}

`, {
  method: 'GET',
  headers: {
    'Authorization': `Bearer ${token}`,
    'Content-Type': 'application/json'
    }
  });
```

```
const userProfile = await response.json();
console.log('User profile:', userProfile);
return userProfile;
} catch (error) {
  console.error('Failed to fetch user profile:', error);
}
};
```

```
def get_user_profile(user_id, token):
    url = f"http://your-domain.com/User1/?id={user_id}"
    headers = {
        'Authorization': f'Bearer {token}',
        'Content-Type': 'application/json'
}

try:
    response = requests.get(url, headers=headers)
    response.raise_for_status()
    return response.json()

except requests.exceptions.RequestException as e:
    print(f"Failed to fetch profile: {e}")
    return None
```

Delete User Account

Endpoint: DELETE /User1/delete?id=user_id&email=user_email Or DELETE /User2/delete?id=user_id&email=user_email

Permanently delete a user account. Requires authentication.

```
const deleteUser = async (userId, email) ⇒ {
 const token = localStorage.getItem('authToken');
 try {
  const response = await fetch(`http://your-domain.com/User1/delete?id=${u
serId}&email=${email}`, {
   method: 'DELETE',
   headers: {
    'Authorization': `Bearer ${token}`,
    'Content-Type': 'application/json'
   }
  });
  const result = await response.json();
  console.log('Account deleted:', result);
  return result;
} catch (error) {
  console.error('Failed to delete account:', error);
};
```

Email Verification

Verify Email Address

Endpoint: GET /User1/verify?token=verification_token Or GET /User2/verify?token=verification_token

Verify a user's email address using the token sent during registration.

This endpoint is typically accessed via email link, but you can also call it programmatically:

```
const verifyEmail = async (token) ⇒ {
try {
```

```
const response = await fetch(`http://your-domain.com/User1/verify?token=
${token}`, {
    method: 'GET'
  });

// This returns an HTML page, but you can check the response status
if (response.ok) {
    console.log('Email verified successfully');
    return true;
  }
} catch (error) {
    console.error('Email verification failed:', error);
    return false;
}
};
```

Password Management

Request Password Reset

Endpoint: GET /User1/forget_password?email=user_email Or GET /User2/forget_password?email=user_email

Send a password reset link to the user's email address.

```
const requestPasswordReset = async (email) \(\Rightarrow\) {
   try {
     const response = await fetch(`http://your-domain.com/User1/forget_passw
   ord?email=${email}`, {
     method: 'GET'
   });

   const result = await response.json();
   console.log('Password reset link sent:', result);
   return result;
}
```

```
} catch (error) {
  console.error('Failed to send reset link:', error);
}

// Usage
requestPasswordReset('john.doe@example.com');
```

```
def request_password_reset(email):
    url = f"http://your-domain.com/User1/forget_password?email={email}"

try:
    response = requests.get(url)
    response.raise_for_status()
    return response.json()
    except requests.exceptions.RequestException as e:
    print(f"Failed to send reset link: {e}")
    return None
```

Reset Password

Endpoint: POST /User1/reset_password?token=reset_token Or POST /User2/reset_password?token=reset_token

Reset user's password using the token from the reset email.

Request Body (Form Data)

password : New password

```
const resetPassword = async (token, newPassword) ⇒ {
  const formData = new FormData();
  formData.append('password', newPassword);
```

```
try {
    const response = await fetch(`http://your-domain.com/User1/reset_passwor
d?token=${token}`, {
    method: 'POST',
    body: formData
});

// This returns an HTML page indicating success/failure
if (response.ok) {
    console.log('Password reset successful');
    return true;
}
} catch (error) {
    console.error('Password reset failed:', error);
    return false;
}
};
```

Phone Verification (OTP)

Generate OTP

Endpoint: POST /User1/otp_phone?id=user_id&phone=phone_number Or POST /User2/otp_phone?id=user_id&phone=phone_number

Generate and send an OTP to the user's phone number.

JavaScript Example

```
const generateOTP = async (userId, phoneNumber) ⇒ {
  try {
    const response = await fetch(`http://your-domain.com/User1/otp_phone?id
    =${userId}&phone=${phoneNumber}`, {
        method: 'POST'
    });
```

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```
const result = await response.json();
console.log('OTP generated:', result);

// Store the token for verification
const otpToken = result.otp;
return otpToken;
} catch (error) {
   console.error('OTP generation failed:', error);
};

// Usage
const otpToken = await generateOTP('user123', '+1234567890');
```

```
def generate_otp(user_id, phone_number):
    url = f"http://your-domain.com/User1/otp_phone?id={user_id}&phone={pho
ne_number}"

try:
    response = requests.post(url)
    response.raise_for_status()
    result = response.json()

# Return the OTP token for verification
    return result.get('otp')
except requests.exceptions.RequestException as e:
    print(f"OTP generation failed: {e}")
    return None
```

Verify OTP

Endpoint: GET /User1/verify_otp_phone?token=otp_token&otp=123456 Or GET /User2/verify_otp_phone?token=otp_token&otp=123456

Verify the OTP entered by the user.

JavaScript Example

```
const verifyOTP = async (otpToken, userEnteredOTP) ⇒ {
 try {
  const response = await fetch(`http://your-domain.com/User1/verify_otp_pho
ne?token=${otpToken}&otp=${userEnteredOTP}`, {
   method: 'GET'
  }):
  const result = await response.json();
  if (result.message === "OTP verified successfully") {
   console.log('Phone number verified!');
   return true;
  } else {
   console.log('Invalid OTP');
   return false;
} catch (error) {
  console.error('OTP verification failed:', error);
  return false;
};
// Usage
const isValid = await verifyOTP(otpToken, '123456');
```

Python Example

```
def verify_otp(otp_token, user_entered_otp):
    url = f"http://your-domain.com/User1/verify_otp_phone?token={otp_token}&
    otp={user_entered_otp}"
```

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```
try:
    response = requests.get(url)
    response.raise_for_status()
    result = response.json()

return result.get('message') == "OTP verified successfully"
except requests.exceptions.RequestException as e:
    print(f"OTP verification failed: {e}")
    return False
```

Session Management

Logout

Endpoint: GET /User1/logout Of GET /User2/logout

Invalidate the current authentication token. Requires authentication.

```
const logoutUser = async () \Rightarrow {
  const token = localStorage.getItem('authToken');

try {
  const response = await fetch('http://your-domain.com/User1/logout', {
    method: 'GET',
    headers: {
        'Authorization': `Bearer ${token}`,
        'Content-Type': 'application/json'
    }
    });

const result = await response.json();

if (response.ok) {
    // Clear stored token
```

```
localStorage.removeItem('authToken');
  console.log('Logged out successfully');
}

return result;
} catch (error) {
  console.error('Logout failed:', error);
}
};
```

```
def logout_user(token):
  url = "http://your-domain.com/User1/logout"
  headers = {
    'Authorization': f'Bearer {token}',
    'Content-Type': 'application/json'
  }
  try:
    response = requests.get(url, headers=headers)
    response.raise_for_status()
    result = response.json()
    if response.status_code == 200:
       print("Logged out successfully")
       return True
  except requests.exceptions.RequestException as e:
    print(f"Logout failed: {e}")
    return False
```

Error Handling

The API returns standard HTTP status codes. Here are the common ones you'll encounter:

- 200: Success
- 400: Bad Request (invalid data)
- **401**: Unauthorized (invalid/missing token)
- 403: Forbidden (email not verified)
- 404: Not Found (user doesn't exist)
- **422**: Validation Error (check your request format)

Example Error Response

```
{
   "detail": "Invalid email or password"
}
```

Complete Integration Example

Here's a complete example showing how to integrate the authentication flow:

JavaScript Integration

```
class AuthAPI {
  constructor(baseURL) {
    this.baseURL = baseURL;
    this.token = localStorage.getItem('authToken');
}

async register(userData) {
  const response = await fetch(`${this.baseURL}/User1/create`, {
    method: 'POST',
    headers: { 'Content-Type': 'application/json' },
    body: JSON.stringify(userData)
});
```

```
return response.json();
}
async login(email, password) {
 const formData = new FormData();
 formData.append('username', email);
 formData.append('password', password);
 const response = await fetch(`${this.baseURL}/User1/login`, {
  method: 'POST',
  body: formData
 });
 const result = await response.json();
 if (result.access_token) {
  this.token = result.access_token;
  localStorage.setItem('authToken', this.token);
 return result;
async getProfile(userId) {
 const response = await fetch(`${this.baseURL}/User1/?id=${userId}`, {
  headers: { 'Authorization': `Bearer ${this.token}` }
 });
 return response.json();
}
async logout() {
 const response = await fetch(`${this.baseURL}/User1/logout`, {
  headers: { 'Authorization': `Bearer ${this.token}` }
 });
 if (response.ok) {
  this.token = null;
  localStorage.removeItem('authToken');
```

```
return response.json();
}

// Usage
const auth = new AuthAPI('http://your-domain.com');
```

Python Integration

```
import requests
class AuthAPI:
  def __init__(self, base_url):
    self.base url = base url
    self.token = None
  def register(self, user_data):
    url = f"{self.base_url}/User1/create"
    response = requests.post(url, json=user_data)
    return response.json()
  def login(self, email, password):
    url = f"{self.base_url}/User1/login"
    data = {'username': email, 'password': password}
    response = requests.post(url, data=data)
    result = response.json()
    if 'access_token' in result:
       self.token = result['access_token']
    return result
  def get_profile(self, user_id):
    url = f"{self.base_url}/User1/?id={user_id}"
```

```
headers = {'Authorization': f'Bearer {self.token}'}
response = requests.get(url, headers=headers)
return response.json()

def logout(self):
    url = f"{self.base_url}/User1/logout"
    headers = {'Authorization': f'Bearer {self.token}'}
response = requests.get(url, headers=headers)

if response.ok:
    self.token = None

return response.json()

# Usage
auth = AuthAPI('http://your-domain.com')
```