Asian Hospital and Medical Center

AHMC API

OAuth is the main authorization framework used for AHMC API. To know and read more about OAuth, refer to RFC 6749 .

Below is the Abstract Protocol Flow of OAuth.

1.2. Protocol Flow

```
+--------+                               +---------------+
|        |--(A)- Authorization Request ->|   Resource    |
|        |                               |     Owner     |
|        |<-(B)-- Authorization Grant ---|               |
|        |                               +---------------+
|        |
|        |                               +---------------+
|        |--(C)-- Authorization Grant -->| Authorization |
| Client |                               |     Server    |
|        |<-(D)----- Access Token -------|               |
|        |                               +---------------+
|        |
|        |                               +---------------+
|        |--(E)----- Access Token ------>|    Resource   |
|        |                               |     Server    |
|        |<-(F)--- Protected Resource ---|               |
+--------+                               +---------------+
```

Figure 1: Abstract Protocol Flow

The abstract OAuth 2.0 flow illustrated in Figure 1 describes the interaction between the four roles and includes the following steps:

(A) The client requests authorization from the resource owner. The authorization request can be made directly to the resource owner (as shown), or preferably indirectly via the authorization server as an intermediary.

(B) The client receives an authorization grant, which is a credential representing the resource owner's authorization, expressed using one of four grant types defined in this specification or using an extension grant type. The authorization grant type depends on the method used by the client to request authorization and the types supported by the authorization server.

(C) The client requests an access token by authenticating with the authorization server and presenting the authorization grant.

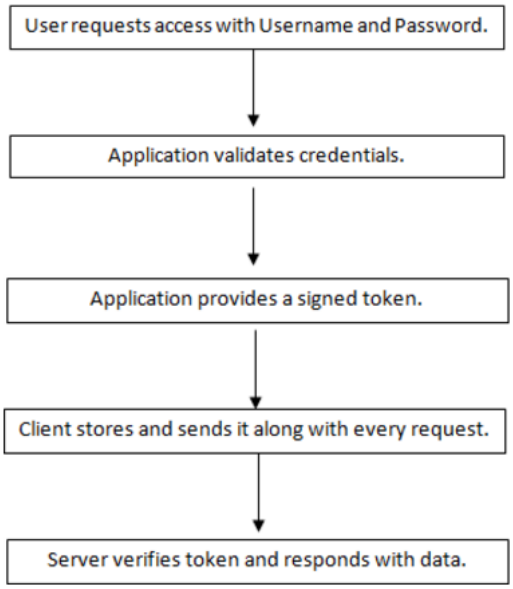
(D) The authorization server authenticates the client and validates the authorization grant, and if valid, issues an access token.

(E) The client requests the protected resource from the resource server and authenticates by presenting the access token.

(F) The resource server validates the access token, and if valid, serves the request.

Token Based Authentication

An access token will be used for authenticating a user for every request sent to the server.



Access and Refresh Token

To be able to retrieve an access token, send a POST request to the Authorization Server together with the given credentials, client_id and client_secret.

grant_type	password
UserName	SampleClient
Password	samplepassword
client_id	TestClient
client_secret	TestSecret

Once the request is successful, an Access and Refresh Token will be sent by the Authorization Server


```
  "access_token": "9dpzptlcYxa5ruUo0KM9Qs576EDJ_S0bQN9uVFxWaG5vo9yrzeDb0ozAFzuKQHU45HobX7XaLoHF8D0vMjswHGQK1GWvoQpiCmmK8VL
TTamcMEQI6r8Utzo4ltVmjUn8eZLHXB5uvMtAuN-_0e04KvsB2M9enW3_8vy7ILwesfkb_DDD1BWXG9opYrQxynAQgMdkUjQDBXL4tBmfUZBIjNfz7CrvPqxtt
LKWPkdmGADXGwpn1hx8sGlkGlbOveEN3gAfFk9R48NRONQwu8zGM53V3K6waxa5b4Zf91nLOFI",
  "token_type": "bearer",
  "expires_in": 3599,
  "refresh_token": "bd1f879e1b7646fc82c47daaa59a5d58",
  "as:client_id": "N0110C",
  "UserName": "SampleClient",
  ".issued": "Wed, 28 Oct 2015 01:34:37 GMT",
  ".expires": "Wed, 28 Oct 2015 02:34:37 GMT"
```

The Access Token must be included in the Authorization header for every request that will be sent to the resource server.

```
Authorization    Bearer 9dpzptlcYxa5ruUo0KM9Qs576EDJ_S0bQN9uVFxWaG5vo9yrzeDb0
```

Once the Access Token has expired, use the Refresh Token to retrieve a new Access Token.

	grant_type	refresh_token
	refresh_token	ce9c73b6ce254291837063e37734dda0
	Password	samplepassword
	client_id	TestClient

Access Token expires after an hour while Refresh Token lasts for 24 hours and for every request to be sent, client_id and client_secret needs to be included.

Sample Get Method

itworksapi.ahmc.net/patients/basic_info/00198547

This retrieves basic information of the specific patient identified by the hospital number parameter.

Example JSON Result


```
{
  "patient_id": "8c45675b-302a-12fc-640b-000e0c7g3ef2",
  "hospital_number": "00198547",
  "display_name": "Palma, Andrea Cruz",
  "date_of_birth": "1961-01-31",
  "sex_rcd": "F",
  "sex": "Female",
  "civil_status_rcd": "U",
  "civil_status": "Unknown",
  "nationality_rcd": "UNK",
  "nationality": "Unknown",
  "highest_educ_level_rcd": "UNK",
  "highest_education_level": "Unknown",
  "occupation_rcd": "UNK",
  "occupation": "Unknown"
}
```