

Web Service Endpoint Documentation
<https://cnmt310.classconvo.com/bookmarks/>

Input: Native JSON object containing four properties/keys:

Parameter	Required	Description
apikey	Yes	String containing the key sent from the instructor.
apihash	Yes	String containing the api hash sent from the instructor.
action	Yes	The web service function to call. See below for an example of the action for this web service.
data	Yes	Object containing data elements required by the given function. See example below.

Example:

```
{
  "apikey": "api5150",
  "apihash": "wofjwncvq",
  "action": "authenticate",
  "data": {
    "username": "mctesterson",
    "password": "testPassword4"
  }
}
```

Returns:

In all cases where JSON was sent according to this documentation, JSON will be returned. Two properties are included with each JSON return:

```
result
data
```

The `result` property will contain the string "Success", "Fail", or "Error" depending on whether authentication was successful or not. The `data` property is typically returned as a nested object or an array of nested objects and will contain additional information depending on the result.

On successful `json_decode()`, several other properties become available within the "data" nested object. These are described in Table 1 within the appendix. A test form that enables you to test a username/password pair and your API key and API hash is available at <https://cnmt310.classconvo.com/bookmarks/tests/>

Examples:

```
{
  "result": "Success",
  "data": {
    "id": "14"
    "name": "Steve Suehring",
    "email": "ssuehrin@uwsp.edu",
  }
}

// Assumes $data contains
// response from web service request
// (Not shown here)
$wsResult = json_decode($data);
$wsResult->result;    // Success
$wsResult->data->id;   // 14
...
```

Failed authentication (invalid username):

```
{
  "result": "Fail",
  "data": {
    "message": "Authentication failed"
  }
}
```

Failed authentication (invalid password):

```
{
  "result": "Fail",
  "data": {
    "message": "Authentication failed"
  }
}
```

A field is missing, for example a missing API key property:

```
{
  "result": "Error",
  "data": {
    "message": "Missing input: API key"
  }
}
```

Appendix

Table 1: Returned values on success

Property	Description
email	The email address associated with the user.
name	The real name associated with the user.
id	The id of this user within the database