Data Flow API Documentation

The **Data Flow API** is a RESTful API that allows users to log in, generate OTPs, and validate them. The JSON format is used by the API for both requests and responses.

Authentication

All requests to the API must be authenticated with a valid user ID and password. If the credentials provided are incorrect, the API will return a *401 Unauthorized* response.

Endpoints

Login

Method: POST /login

URL: *POST http://api.example.com/login*

This endpoint is used to log in a user. The user must provide their user ID and password in the request body.

Request Body

Element	Description	Type	Required	Notes
userId	The user's username	String	Required	
password	The password for the user	String	Required	

Sample Request

```json
{
    "userId": "string",
    "password": "string"
}
```

Response Body

If the credentials are correct, the API will return a *200 OK* response with an access token that can be used to make further requests.

If the credentials are incorrect, the API will return a *401 Unauthorized* response.

Element	Description	Type	Notes
status	HTTP status	string	For HTTP status codes, refer 'Status Codes and Errors' table.
Data/token	The returned access token for Password validation	String	

Sample Response

```json
{
    "status": "OK",
    "data": {
        "token": "string"
    }
}
```

Status Codes and Errors

The following table lists the returned HTTP status codes.

Code	Description	Notes
200	OK	Success
401	Unauthorized	The password is invalid

Generate OTP

Method: POST /otp

URL: *POST http://api.example.com/otp*

This endpoint is used to generate an OTP. The user must provide their access token in the request headers.

Request Headers

Header Name	Description	Required	Values
Bearer	The access token	Required	See Authorization section.
Accept	The format of the data to be returned	Optional	Application/json, application/xml. Default is application/json
Content-Type	Format of the data to be posted	Optional	Application/json, application/xml. Default is application/json

Sample Header

```
{
"Bearer": "Bearer ACCESS_TOKEN",
"Accept": "application/json",
"Content-Type": "application/json"
}
```

Request Body

Element	Description	Type	Required	Notes
token	The received access token while Logging in	String		

Sample Request

```
{
"token": "string"
}
```

Response Body

If the access token is valid, the API will return a 200 OK response with the OTP.

Element	Description	Type	Notes
status	HTTP status		For HTTP status codes, refer 'Status Codes and Errors' table.

data/otp	The returned OTP from the server	String

Sample Response

```
{
"status": "OK",
"data": {
  "otp": "string"
}
}
```

Status Codes and Errors

The following table lists the returned HTTP status codes.

Code	Description	Notes
200	OK	Success

Validate OTP

Method: POST /otp/validate

URL: *POST http://api.example.com/otp/validate*

This endpoint is used to validate an OTP. The user must provide the OTP in the request body and their access token in the request headers.

Request Headers

Header Name	Description	Required	Values
Bearer	The access token	Required	See Authorization section.
Accept	The format of the data to be returned	Optional	Application/json, application/xml. Default is application/json
Content-Type	Format of the data to be posted	Optional	Application/json, application/xml. Default is application/json

Sample Header

```
{
"Bearer": "Bearer ACCESS_TOKEN"
"Accept": "application/json"
"Content-Type": "application/json"
}
```

Request Body

This endpoint is used to validate the user's OTP. The user must provide OTP returned from server.

Element	Description	Type	Required	Notes
otp	The generated OTP from the server	String	Required	

Sample Request

```
{
"otp": "string"
}
```

Response Body

If the OTP is valid, the API will return a *200 OK* response.

If the OTP is invalid, the API will return a *400 Bad* Request response.

Element	Description	Type	Notes
status	HTTP status code		For HTTP status codes, refer 'Status Codes and Errors' table.
data/ landingPage	The landing web page	String	

Sample Reponse

```
{
"status": "OK",
"data": {
  "landingPage": "string"
}
}
```

Status Codes and Errors

The following table lists the returned HTTP status codes.

Code	Description	Notes
200	OK	Success
400	Bad request	Incorrect OTP