Aadhaar limited Check Technical Documentation

Overview

The UIDAI website has only one touchpoint to verify the Aadhaar.

- Enter the aadhaar number and captcha.

The above can be achieved with the following two APIs.

1. GET `/api/v1/captcha` - To get `sessionId` and `captcha` image.
2. POST `/api/v1/verifyAadhaar` - To verify the Aadhaar details.
    - If match parameters are provided, it performs matching of details as well.

Schema

It is recommended that HTTPS is used for all API calls. For HTTPS, only TLS v1.2 is supported to ensure better security. All data is received as JSON.

Root Endpoint

A `GET` request can be issued to the root endpoint to check for a successful connection.

```
curl https://india-vcip-aadhaarxml-demo.hyperverge.co
```

The `plain/text` response to `Aok` should be received.

NOTE: The above base URL is only for demo and integration purposes. Contact the HyperVerge team for the production URL.

API specification

1. Get CAPTCHA image

- **URL** `/api/v1/captcha`

- **Method** `GET`

- **Header**

    - content-type : application/json
    - appId
    - appKey

- **Response Body**

```
{
    "sessionId": <String>,
    "captchaImage": <base64 image string>,
    "code": 10000,
    "statusCode": 200
}
```

The session returns the sessionId for a particular session. This should be sent in the following API.

2. Get Aadhaar details from UIDAI

- **URL** `/api/v1/verifyAadhaar`

- **Method** `POST`

- **Header**

    - content-type : application/json
    - appId
    - appKey

Request Body

Parameter	Type	Description	Required
sessionId	*string*	This is the sessionID which is received from the first API	Yes
aadhaarNoUser	*string*	This is the aadhaar number for which details need to be fetched	Yes
securityCode	*string*	Value present in the captcha image received from the first API	Yes

Parameter	Type	Description	Required
match	*boolean*	If this is set to true, whichever details will be provided from below will be matched with information received from UIDAI	No
aadhaarNoClient	*string*	This is the aadhaar number sent by the client if it needs to be matched with the aadhaar number sent by the user	No
dob	*string*	Date of birth to be matched	No
gender	*string*	Gender to be matched	No
phoneNo	*string*	Phone No to be matched	No

Response Structure

Success Response

- Structure

-- Match set to false

Parameter	Type	Description
message	*string*	This described the state of aadhaar
detailsFromUIDAI	*string*	This details from UIDAI containing ageBand, gender, state, phoneNo
code	*number*	Internal code determining the status of response
statusCode	*number*	Status of response

-- Match set to true

Parameter	Type	Description
message	*string*	This described the state of aadhaar
detailsFromUIDAI	*string*	This details from UIDAI containing ageBand, gender, state, phoneNo
code	*number*	Internal code determining the status of response
statusCode	*number*	Status of response
channel	*number*	This is the channel with values "Red", "Yellow" or "Green" determined by matching below
aadhaarNumberCheck	*string*	This determines if aadhaar is valid based on UIDAI response
aadhaarNumberMatch	*string*	This matches the aadhaar no given by the user and aadhaar no given by client if aadhaarNoClient is sent
dobMatch	*number*	This determines if the age from dob exists within the ageBand from UIDAI if dob is sent

Parameter	Type	Description
genderMatch	*number*	This matches the gender given by the client and received from UIDAI if gender is sent
stateMatch	*string*	This matches the state given by the client and received from UIDAI if the state is sent
phoneNoMatch	*number*	This matches the last three digits of phoneNo given by the client and received from UIDAI if phoneNo is sent

- Sample

If the match set to false :

```
{
    "message": "Aadhaar Number XXXX-XXXX-XXXX Exists!",
    "detailsFromUIDAI": {
        "ageBand": "20-30",
        "gender": "MALE",
        "state": "Delhi",
        "phoneNo": "xxxxxxx545"
    },
    "statusCode": 200,
    "code": 10300
}
```

If match set to true :

```
{
    "message": "Aadhaar Number XXXXXXXX1234 Exists!",
    "detailsFromUIDAI": {
        "ageBand": "20-30",
        "gender": "MALE",
        "state": "Delhi",
        "phoneNo": "xxxxxxx123"
    },
    "statusCode": 200,
    "code": 10300,
    "aadhaarNumberCheck": {
        "match": true,
        "channel": "Green"
    },
    "aadhaarNumberMatch": {
        "match": true,
        "channel": "Green"
    },
    "dobMatch": {
        "ageBandFromUIDAI": "20-30",
        "match": true,
```

```
            "channel": "Green"
        },
        "genderMatch": {
            "genderFromUIDAI": "MALE",
            "match": true,
            "channel": "Green"
        },
        "stateMatch": {
            "stateFromUIDAI": "Delhi",
            "match": true,
            "channel": "Green"
        },
        "phoneNoMatch": {
            "phoneNoFromUIDAI": "xxxxxxx123",
            "match": true,
            "channel": "Green"
        },
        "channel": "Green"
    }
```

If the aadhaar number is deactivated :

```
{
    "message": "Aadhaar number XXXXXXXXXXX has been deactivated under
regulation 28 of the Aadhaar (Enrolment & Update) Regulations, 2016.",
    "statusCode": 200,
    "code": 10301
}
```

Error Response

- Sample

```
{
    "error": "aadhaarNoUser should not be null or undefined",
    "code": 11301,
    "statusCode": 400
}
```

Error Codes

Code	Status Code	Meaning	Output	Action

Code	Status Code	Meaning	Output	Action
11301	400	Empty Aadhaar Number User	{ "error": "aadhaarNoUser should not be null or undefined", "code": 11301, "statusCode": 400 }	aadhaarNoUser should not be null or undefined
11301	400	Invalid Aadhaar Number User	{ "error": "enter a valid aadhaar number", "code": 11301, "statusCode": 400 }	aadhaarNoUser should be a valid aadhaar number
11302	400	Invalid Aadhaar Number Client	{ "error": "enter a valid aadhaar number", "code": 11302, "statusCode": 400 }	Enter a valid aadhaar number
11303	400	Match value isn't boolean	{ "error": "match must be a boolean value", "code": 11303, "statusCode": 400 }	Match must be a boolean value
11304	400	DOB is not a string	{ "error": "dob must be a string", "code": 11304, "statusCode": 400 }	dob must be a string
11305	400	State is not a string	{ "error": "state must be a string", "code": 11305, "statusCode": 400 }	State must be a string
11306	400	Gender is not a string	{ "error": "gender must be a string", "code": 11306, "statusCode": 400 }	Gender must be a string
11307	400	State is not a string	{ "error": "state must be a string", "code": 11305, "statusCode": 400 }	State must be a string
12002	500	Aadhaar Page Error	{"error": "error occurred while initiating the session", "code": 12002, "statusCode": 500}	Verify if UIDAI site is up and retry.
12301	500	Server Error	{"error": "something went wrong", "code": 12203, "statusCode": 500}	
18000	400	Invalid sessionId	{"error": "invalid sessionId", "code": 18000, "statusCode": 400}	Provide correct sessionId and retry.

Error Structure For the APIs

- Structure

Parameter	Type	Description
error	*string*	This describes the error
code	*integer*	Internal code determining the status of response
statusCode	*integer*	Status code of response

- Sample

```
{
    "error": <string>,
    "code": <integer>,
    "statusCode": <integer>
}
```