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# DOCUMENT FOR DEPARTMENT INTEGRATION WITH MAP\_IT FOR AVAILING SINGLE CITIZEN SERVICES

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Developed by MAP\_IT



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## Introduction

Samagra Number serves as an identity and address proof across the state. It applies and avails benefits of different State Government services using Samagra. Through the overall social security program, the aim of the schemes run by the state government was to make the access to the beneficiaries easier and easier and their targeted results effective and simplification of the schemes.

MAP\_IT has developed a standard API to facilitate the MP Government department to avail the services of Samagra. Department can use these APIs to get the demographic, education and school details of the beneficiary using Samagra Id or Family Id.

## Get Details of a Member using Samagra ID

### Request URL

<http://103.94.206.220/singlecitizen/v1/api/sid>

API input data should be sent to this URL as JSON document using Content-Type "application/json".

### Request Attributes

#### Header

1. Authorization As String: Unique Code to access the service

#### Body

1. id As String: Samagra Id of the Member
2. requestId As String: Unique department Identifier

### Response Attributes

#### RETURN TYPE

A JSON response; Each response attribute contains a Status and ResponseCode which should be used to parse the service response. Only the service response code "S00" corresponds to a successful response from Samagra API.

1. status As Integer: It is either '1' in case of success or '0' in case of failure
2. transactionId As String: Unique Identifier managed for each request
3. memberId As Integer: Samagra Id for the Member
4. familyId As Integer: Samagra Family Id of the Member
5. firstName As String: First Name of Member
6. lastName As String: Last Name of Member
7. fatherName As String: Father Name of Member
8. motherName As String: Mother Name of Member
9. spouseName As String: Spouse Name of Member
10. headFamilyMemberName As String: Name of the head family member
11. relationWithHead As String: Relation with Head of the Family
12. gender As String: Gender of the Member(Male/Female)
13. dob As String: Date of Birth of the Member in "mm/dd/yyyy" format
14. homeAddress As String: Home address of Member
15. district As String: District name of Member
16. zone As String: Zone name of Member
17. ward As String: Ward name of Member

18. emailAddress As String: Email address of Member
19. mobileNumber As Integer: Mobile number of Member
20. isHead As String: Head Member of the family (Yes/No)
21. profession As String: Profession of the Member
22. caste As String: Caste of Member
23. isDisabled As String: Disability Status of the Member (Yes/No)
24. isBpl AS String: BPL Status of the Member (Yes/No)
25. education As String: Educational Qualification of the Member

### Sample Successful Response

```
{
  "status": 1,
  "transactionId": "50ef774a-eed8-49f2-9d6d-42439387abe8",
  "data": {
    "memberId": <member id>,
    "familyId": <family id>,
    "firstName": "Laxmi Chand",
    "lastName": "Regar",
    "fatherName": "Panna Lal Regar",
    "motherName": "Para Bai Regar",
    "spouseName": "Sugna Bai Regar",
    "headFamilyMemberName": "Laxmi Chand Regar",
    "relationWithHead": "Self",
    "gender": "Male",
    "dob": "01/01/1976",
    "homeAddress": "House No. 8, Regar Mohalla Sheopur-476337",
    "district": "SHEOPUR",
    "zone": "Zone 1, Nagar Palika श्योपुरकलां",
    "ward": "WARD NO 15",
    "emailAddress": "",
    "mobileNumber": 7697607454,
    "isHead": "Yes",
    "profession": null,
    "caste": "SC",
    "isDisabled": "No",
    "isBpl": "Yes",
    "education": "NA"
  },
  "ResponseCode": "S00"
}
```

### Sample Failed Response

```
{
  "timestamp": "05-04-2021 12:57:11",
  "status": 0,
```

```
"transactionId": "3e6af4df-f432-415c-bce8-266c9e462a01",
"message": "Samagra Id is not of 9 digit.",
"ResponseCode": "E10"
}
```

## Get Details of a Member Using Family ID

### Request URL

<http://103.94.206.220/singlecitizen/v1/api/fid>

API input data should be sent to this URL as JSON document using Content-Type "application/json".

### Request Attributes

#### Header

1. Authorization As String: Unique Code to access the service

#### Body

1. id As String: Family Id of the Member
2. requestId As String: Unique department Identifier

### Response Attributes

#### RETURN TYPE

A JSON response having array of member objects; Each response attribute contains a Status and ResponseCode which should be used to parse the service response. Only the service response code "S00" corresponds to a successful response from Samagra API.

1. status As Integer: It is either '1' in case of success or '0' in case of failure
2. transactionId As String: Unique Identifier managed for each request
3. memberId As Integer: Samagra Id for the Member
4. familyId As Integer: Samagra Family Id of the Member
5. firstName As String: First Name of Member
6. lastName As String: Last Name of Member
7. fatherName As String: Father Name of Member
8. motherName As String: Mother Name of Member
9. spouseName As String: Spouse Name of Member
10. headFamilyMemberName As String: Name of the head family member
11. relationWithHead As String: Relation with Head of the Family
12. gender As String: Gender of the Member(Male/Female)
13. dob As String: Date of Birth of the Member in "mm/dd/yyyy" format
14. homeAddress As String: Home address of Member
15. district As String: District name of Member
16. zone As String: Zone name of Member
17. ward As String: Ward name of Member
18. emailAddress As String: Email address of Member
19. mobileNumber As Integer: Mobile number of Member
20. isHead As String: Head Member of the family (Yes/No)
21. profession As String: Profession of the Member
22. caste As String: Caste of Member

- 23. isDisabled As String: Disability Status of the Member (Yes/No)
- 24. isBpl AS String: BPL Status of the Member (Yes/No)
- 25. education As String: Educational Qualification of the Member

### Sample Successful Response

```
{
  "status": 1,
  "transactionId": "28b95536-aba5-49bc-bc1b-c3d4ef7396fa",
  "data": [
    {
      "memberId": <member id>,
      "familyId": <family id>,
      "firstName": "Laxmi Chand",
      "lastName": "Regar",
      "fatherName": "Panna Lal Regar",
      "motherName": "Para Bai Regar",
      "spouseName": "Sugna Bai Regar",
      "headFamilyMemberName": "Laxmi Chand Regar",
      "relationWithHead": "Self",
      "gender": "Male",
      "dob": "01/01/1976",
      "homeAddress": "House No. 8, Regar Mohalla Sheopur-476337",
      "district": "SHEOPUR",
      "zone": "Zone 1, Nagar Palika श्योपुरकलां",
      "ward": "WARD NO 15",
      "emailAddress": "",
      "mobileNumber": 7697607454,
      "isHead": "Yes",
      "profession": null,
      "caste": "SC",
      "isDisabled": "No",
      "isBpl": "Yes",
      "education": "NA"
    },
    {
      "memberId": <member id>,
      "familyId": <family id>,
      "firstName": "Sugna Bai",
      "lastName": "Regar",
      "fatherName": null,
      "motherName": null,
      "spouseName": "Laxmi Chand Regar",
      "headFamilyMemberName": "Laxmi Chand Regar",
      "relationWithHead": "Wife",
      "gender": "Female",
      "dob": "01/01/1978",
    }
  ]
}
```

```

    "homeAddress": "House No. 8, Regar Mohalla Sheopur-476337",
    "district": "SHEOPUR",
    "zone": "Zone 1, Nagar Palika श्योपुरकलां",
    "ward": "WARD NO 15",
    "emailAddress": "",
    "mobileNumber": 7746039062,
    "isHead": "No",
    "profession": null,
    "caste": "SC",
    "isDisabled": "Yes",
    "isBpl": "Yes",
    "education": "NA"
  },
  {
    "memberId": <member id>,
    "familyId": <family id>,
    "firstName": "Mukesh",
    "lastName": "Regar",
    "fatherName": "Laxmi Chand Regar",
    "motherName": "Sugna Bai Regar",
    "spouseName": null,
    "headFamilyMemberName": "Laxmi Chand Regar",
    "relationWithHead": "Son",
    "gender": "Male",
    "dob": "01/01/2000",
    "homeAddress": "House No. 8, Regar Mohalla Sheopur-476337",
    "district": "SHEOPUR",
    "zone": "Zone 1, Nagar Palika श्योपुरकलां",
    "ward": "WARD NO 15",
    "emailAddress": "",
    "mobileNumber": null,
    "isHead": "No",
    "profession": null,
    "caste": "SC",
    "isDisabled": "No",
    "isBpl": "Yes",
    "education": "4 th"
  }
],
"ResponseCode": "S00"
}

```

### Sample Failed Response

```

{
  "timestamp": "05-04-2021 02:34:36",
  "status": 0,
  "transactionId": "bfe28c8e-8548-490c-8b5e-152379addaac",

```

```
"message": "Family Id is not of 8 digit.",  
"ResponseCode": "E03"  
}
```

## Generating client code

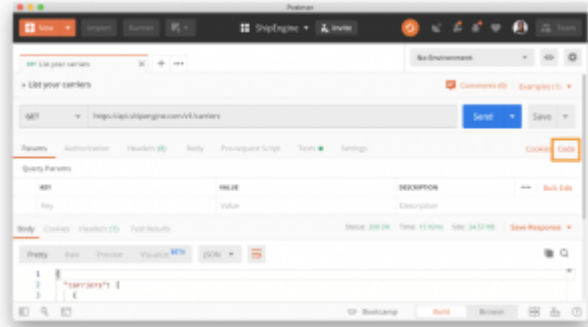
Postman is a popular API client that makes it easy for developers to create, share, test and document APIs. This is done by allowing users to create and save simple and complex HTTP/s requests, as well as read their responses. The result - more efficient and less tedious work. Postman app can be downloaded from the link <https://www.postman.com/downloads/>

To use the above APIs, department User can generate code snippets in various languages and frameworks within Postman and starting using it in their application.

## Generating code snippets in Postman

In Postman, select the request under your collection and follow the below steps:-

1. On the right, under **Save**, click the **Code** link.



2. In the **Generate code snippets** modal, select the language or framework to update the generated code.



3. Copy and paste the code into your app.



## Sample Code generated using Postman

Generated code for C# - RestSharp

```
using System;
using RestSharp;
namespace HelloWorldApplication {
    class HelloWorld {
        static void Main(string[] args) {
            var client = new RestClient("http://103.94.206.220/singlecitizen/v1/api/sid");
            client.Timeout = -1;
            var request = new RestRequest(Method.POST);
            request.AddHeader("Authorization", "<authorization code>");
            request.AddHeader("Content-Type", "application/json");
            request.AddParameter("application/json", "{\r\n  \"id\" : \"<samagra id or family id>\", \r\n
\r\n \"requestId\" : \"1001\" \r\n}", ParameterType.RequestBody);
            IRestResponse response = client.Execute(request);
            Console.WriteLine(response.Content);
        }
    }
}
```

Generated code for Java - OkHttp

```
import java.io.*;
import okhttp3.*;
public class main {
    public static void main(String []args) throws IOException{
        OkHttpClient client = new OkHttpClient().newBuilder()
            .build();
        MediaType mediaType = MediaType.parse("application/json");
        RequestBody body = RequestBody.create(mediaType, "{\r\n  \"id\" : \"<samagra id or family
id>\", \r\n  \"requestId\" : \"1001\" \r\n}");
        Request request = new Request.Builder()
            .url("http://103.94.206.220/singlecitizen/v1/api/sid")
            .method("POST", body)
            .addHeader("Authorization", "<authorization code>")
            .addHeader("Content-Type", "application/json")
            .build();
        Response response = client.newCall(request).execute();
        System.out.println(response.body().string());
    }
}
```

Generated code for PHP - HTTP\_Request2

```
<?php
require_once 'HTTP/Request2.php';
$request = new HTTP_Request2();
$request->setUrl('http://103.94.206.220/singlecitizen/v1/api/sid');
```

```

$request->setMethod(HTTP_Request2::METHOD_POST);
$request->setConfig(array(
    'follow_redirects' => TRUE
));
$request->setHeader(array(
    'Authorization' => '<authorization code>',
    'Content-Type' => 'application/json'
));
$request->setBody('{
\n  "id" : "<samagra id or family id>",
\n  "requestId" : "1001"
\n}');
try {
    $response = $request->send();
    if ($response->getStatus() == 200) {
        echo $response->getBody();
    }
    else {
        echo 'Unexpected HTTP status: ' . $response->getStatus() . ' ' .
        $response->getReasonPhrase();
    }
}
catch(HTTP_Request2_Exception $e) {
    echo 'Error: ' . $e->getMessage();
}

```

### List of supported code generators in Postman

Language	Variant (underlying library used by the language)
C	libcurl
C#	RestSharp
cURL	cURL
Dart	http
Go	Native
HTTP	HTTP
Java	OkHttp
Java	Unirest
JavaScript	Fetch
JavaScript	jQuery

<b>Language</b>	<b>Variant (underlying library used by the language)</b>
JavaScript	XHR
NodeJs	Axios
NodeJs	Native
NodeJs	Request
NodeJs	Unirest
Objective-C	NSURLSession
OCaml	Cohttp
PHP	cURL
PHP	pecl_http
PHP	HTTP_Request2
PowerShell	RestMethod
Python	http.client
Python	Requests
Ruby	Net:HTTP
Shell	Httpie
Shell	wget
Swift	NSURLSession