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| API Specification |
| {api\_name} |
| SOA Enterprise Services |

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# REST API Specification

## API Description

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| --- | --- |
| **Name of API** | Simple name of the service or API {api\_name} |
| **Description** | Provide text description of what the service does and the business/technical operations performed by the servive.  Detail Description |
| **Resources** | List down names of all resources exposed by the service.   |  |  | | --- | --- | | Resource | Summary | | {resource\_name} | Summary description | | {resource\_name} | Summary description | | {resource\_name} | Summary description | |

## Resource Specification

|  |  |
| --- | --- |
| **Resource Name** | Name of the resource {resource\_name} |
| **Description** | Detailed description of the interface components  Detail Description |
| **Resource URL** | Define relative URL for the resource defined in the Service/API.  /resource/path/{id} |
| **Request Verb** | POST/GET/PUT/DELETE  GET |
| **Request Headers** | List and explain all mandatory and optional headers needed for calling the service.  Refer to General API components section |
| **Request Parameters** | List down all the mandatory and optional query parameters that are passed in request. Explain variables in URL template if URL contains variables in curly braces.   |  |  |  |  | | --- | --- | --- | --- | | Parameter Name | Required/  Optional | Description | Parameter Type | | id | R | Member lookup id  Example – 345562334 | Template | | fname | O | First Name | Query | | lname | O | Last Name | Query | | dob | O | Format - mmddyyyy  Example - 04231956 | Query | |
| **Request URI Examples** | GET resource/path/345562334  GET resource/path/YRX345667?fname=Joe |
| **Request Body Example** | How exactly the request data look like, if applicable. Generally GET requests do not have request body.  N/A |
| **Response Headers** | List and explain all headers in the response.  Refer to General API components section |
| **Response Body Example** | How Exactly the response body look like.  Sample response from the API during positive scenarios (i.e user input is good and server does not encounter any errors).  Paste or embed sample JSON payload  {  "memberid": "123",  "fname": "Joe",  "lname": "Smith"  } |
| **Input Data validations performed** | Explain any validation done on the mandatory and optional input parameters (i,e URL template params, Query Params, Request Headers or Params in request body like form params etc). |
| **Error Response HTTP Status Codes** | Error Response HTTP Status Codes returned by Service/API  Refer to General API components section |

|  |  |
| --- | --- |
| **Resource Name** | Name of the resource {resource\_name} |
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| **Error Response HTTP Status Codes** | Error Response HTTP Status Codes returned by Service/API  Refer to General API components section |

## General API Components

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Request Headers** | List and explain all mandatory and optional headers needed for calling the service.   |  |  |  |  | | --- | --- | --- | --- | | Header Name | Description | R/O | Values | | X-ANTHEM-CLIENT-ID | Consumer key |  |  | | X-ANTHEM-CLIENT-SECRET | Consumer secret |  |  | | APIKey | Access Token, Client ID, sender app etc., | R |  | | Accept |  | O | application/json | |
| **Response Headers** | List and explain all headers in the response.   |  |  |  |  | | --- | --- | --- | --- | | Header Name | Description | R/O | Values | | Content-Type |  | O | application/json | |
| **Error Response HTTP Status Codes** | Error Response HTTP Status Codes returned by Service/API   |  |  | | --- | --- | | HTTP Status Code | Description | | 200 OK | Successful response | | 400 Bad request | Problem with request, parameter values or format | | 401 Unauthorized | Could not authenticate | | 403 Forbidden | Not allowed to access the resource | | 404 Not Found | Unable to find the resource requested | | 500 Internal Server Error | A generic error message, given when an unexpected condition is encountered | | 503 Service Unavailable | If the API gateway is unable to communicate with the backend service, it will return this error | |
| **Error Response Format** | Standard Error Response payload format   |  |  | | --- | --- | | Element | Description | | code | Internal application error code, classification of error. | | message | Summary of the Error; message to be displayed to user. | | detail | Detail description which might help App Developer to correct the input errors or understand errors on server side for troubleshooting. |   {  "exceptions": [  {  "type": "E",  "code": "1001",  "message": "Name of the Error 1001",  "detail": "Detailed description of error 1001"  }  ]  } |

# Terms & Definitions

|  |  |
| --- | --- |
| **Term** | **Description** |
| **REST** | Representational State Transfer |
| **HTTP** | Hyper Text Transfer Protocol |
| **API** | Application Programming Interface |

# Revision History

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| --- | --- | --- | --- |
| **Date** | **Revision** | **Description** | **Author** |
| 4/1/2015 |  | Draft Template | Manoj Parimi |