Solution Design Details for Service

(This document template is to be used while submitting an entry to the INT Code Repository as a Web Service. It is supposed to be hosted on a server and easily consumable.)

Design Details

For

< Service name>

Version No.: <1.0>

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1. Document Release History

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No. | Version Number | Release Date | Prepared By | Reviewed & Approved By | Reasons for New Release |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

1. List of Amendments Made On The Previous Version No. \_\_\_\_\_

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl. No. | Section No. /Page No. | Description of the amendment | Approved by | Change Date |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

# 

# Introduction

## Purpose

<The purpose of this solution>

## Scope of the Proposed Service

<Scope of the solution and its limitations>

## General Features of the Proposed Service

< Features of the proposed solution >

## The Development Environment

<Tech. stacks, IDE, etc.>

* <item 1>
* <item 2>
* …
* <item N>

## Third Party Tools

<External Libraries, tools etc.>

* <item 1>
* <item 2>
* …
* <item N>

<Write NA if not applicable/used>

# Specific Description of the Solution/Components

## Business Rules

<Write NA if not applicable/used>

* <Description goes here…>
* <Description goes here…>

## Endpoint Information

e.g:-

|  |  |
| --- | --- |
| Title | Add Company |
| URL | api/v2.1.0/org/addcompany |
| Method Type | HTTP Method: POST  Content-Type: Application/JSON  Response Format: JSON  Requires Authentication: Yes |

## Field Level Description

e.g:-

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Key** | **Sample Value** | **Type** | **Required** | **Editable** | **Description** |
| companyid | 5ef1b0ce-0c44-11ed-  861d-0242ac120002 | BSON ObjectID | NA | NO | This is the primary company id and cannot  be pass as it will generated at run time |
| parentcompanyid | 6de40564-0c44-11ed-  861d-0242ac120002 | BSON ObjectID | YES | NO | This is the parent company and is required  to be passed. If this is the initial setup the  parentcompanyid would be 0 which  indicated this is the top most level (  reserved for Fintainium) |
| companyname | My Company | Str | YES | YES | The name of company, this does not have  to be unique but it is highly recommended. |
| companydescription | Lorem ipsum dolor sit  amet, consectetur  adipiscing elit. | Str | NO | YES | a simple short description of the organization/company |
| companyAddress |  | JsonObj - AddressModel | YES | YES | The Primary Company Address |
| contacts |  | JsonObjcontactInfoMod  el | YES | YES | Contact of the organization/Company, at  least 1 contact object need to present |
| datecreated | 1658773073000 | Long | NA | NO | The date the object is created and cannot  be passed |
| isActive | true | Bool | NA | NO | indicated if the account is active and  cannot be passed on creation |
| metadata |  | JsonArrObj -MetaDataModel | NO | YES | Optional additional information that would  be liked to be passed. |

## Response Message

e.g:-

|  |  |  |  |
| --- | --- | --- | --- |
| **Status Code** | **Reponse Mode Type** | **Condition** | **Payload** |
| 200 | ResponseModel | Successful API request will return HTTP status code 200 as a response along with a success message as shown below | { "StatusCode": 200, "TraceID" : "1324567984489789", "Message": "Records inserted successfully", "MessageTypeID" : 1 } |
| 422 | ResponseModel | If an API request is well-formed, however, due to semantic errors it is unable to process the contained instructions, an error response of HTTP  status code 422 is returned in the following format. The error response has an error code and error description/message. | {  "timestamp": 1561571053912,  "statusCode": 422,  "errorCode" : 1,  "message": "Unprocessable Entity",   "error": "Internal Server Error",  "traceID" : "1324567984489789",  "trace": "java.lang.Exception: invalid article title length!\n\tat fn.service.core.controllers.health.SecretDoor.secretDoorBouncer(SecretDoor.java:14)\n\tat java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)\n\tat....<50 more lines of incomprehensible stack trace>,  "path": "/v2.1.0/article/createArticle" } |

## Business Requirements Rules

e.g:-

|  |  |  |
| --- | --- | --- |
| **Rule Id** | **Rule** | **Description** |
| COM-BR-0001 | companyname | The name of the company should be unique. |

## 

## Development Requirements Rules

e.g:

|  |  |  |
| --- | --- | --- |
| **Rule Id** | **Rule** | **Description** |
| COM-DR-0001 | parent companyid | If parent-company id=0 then it should be treated as the topmost level and reserved for Fintainium |
| COM-DR-0002 | companyname | The company name should hold some value. |
| COM-DR-0003 | Contact | Each company must have at least 1 contact object that  needs to be present. |
| COM-DR-0004 | address1 | The address1 field of the company address should contain  the address of the location but not the unit/suite number. |
| COM-DR-0005 | address2 | The address2 field of the company address should contain  the unit/suite number. |

## Calls made to other external Classes/Services/Interfaces etc.

<Write NA if not applicable/used>

* <Class 1> : <Short description goes here…>
* <Class 2> : < Short description goes here…>

## Associated Screens and Usage Steps

<Write NA if not applicable/present>

|  |
| --- |
| {  "parentcompanyid": "6de40564-0c44-11ed-861d-0242ac120002",  "companyname": "Payment Services Inc",  "companydescription": "Lorem ipsum dolor sit amet, consecteturadipiscing elit.",  "companyAddress": [  {  "address1": "125 Commerce Valley Dr W",  "address2": "Suite 100",  "address3": "",  "city": "Thornhill",  "state": "ON",  "zip": "L3T 7W4",  "country": "Canada"  }  ],  "contacts": [  {  "contacttype": "System Admin",  "firstname": "Jane",  "lastname": "Doe",  "emailaddress": "jane.doe@mailinator.com",  "phone": "999-999-9999"  }  ],  "isactive": true,  "metadata": [  {  "key": " LoginTime",  "value": "1658773260000"  }  ] } |

## Test Strategy and logs

<Mention the strategy/process/methods that you adopted for conducting the tests in the solution>

<Mention the file name and location where the associated Test Cases and Test Logs are stored. May hyperlink or paste the same here if those are prepared>

<Write NA if not applicable/used with proper reasoning>

# Integration/Deployment Notes

<Write how to use and deploy the service if someone wants to use>

# Special Considerations and Notes

<Write NA if something is not at this moment. You can include here future aspects, security, standards followed, performance aspects etc.>

# Alternatives Present

<Write if you think there are alternative available on the Internet or on INT library>

* <Alternative 1>: <Source and/or Link>
* < Alternative 2> : <Source and/or Link>

<Write NA if not applicable/used>

# Appendix

<Please provide name of the supporting and attached documents or provide source links here of the associated items like user manual, test logs, workflow, screen-shots etc.>

* <Attachment 1>: <Source and/or Link>
* <Attachment 2> : <Source and/or Link>

<Write NA if not applicable/used>

# Bibliography

<Please provide resources that were used while used preparing this solution. e.g.: website links, book names, name of supporting person etc.>

* <resource 1>
* <resource 1>

<Write NA if not applicable/used>