

Synergita API Specification

A complete RESTful Service guide

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Synergita – REST API Specification Document

Contents

Objective and Scope	2
RESTful Service	2
API Specification	2
1. API Request	2
2. API Response	2
REST API Authentication	3
REST API - Employee	3
1. Get Employee Details	3
2. Get Team Details	4
3. Add Employee	5
4. Update Employee	8
5. Deactivate Employee	13
Rest API - Continuous Feedback	13
1. Employee Auto suggestion API	13
2. Category API	14
3. Rewards API	15
4. Add Feedback API	15
5. My Continuous Feedback API Method	16
6. Continuous Feedback Wall API Method	17
Modification History	18

Synergita – REST API Specification Document

Objective and Scope

This document elaborates Application Programming Interfaces (API), which helps other applications to integrate with Synergita easily. The function of each interface and its parameters are also explained in this document.

RESTful Service

REST stands for “Representational State Transfer” and it is an architectural pattern for creating an API that uses HTTP as its underlying communication method. REST is just an alternate to SOAP and Web Service Description Language (WSDL) based web services.

Almost every device that is connected to the internet already uses HTTP; it is the base protocol that the internet is built on, which is why it makes such a great platform for developing APIs.

Synergita uses JSON format for request and response in the RESTful services. This ensures delivering light weight payload to web and mobile clients.

API Specification

1. API Request

Synergita API requests should contain API authentication parameter called “**Authorization**” which contains authentication token for accessing API service methods. For more details, refer “**REST API Authentication**” section.

REST API uses HTTP requests to receive the data and send response in JSON format. So, each request should contain a header “**Content-Type**” with value as “**application/json**”.

2. API Response

Each API request call returns a JSON response. Any exceptions occurred during the call is also be sent back in JSON format.



Synergita – REST API Specification Document

REST API Authentication

Each API should get authenticated and authorized before retrieving the data. The parameter “**Authorization**” has to be passed in header of each request to validate each request and serve the response back to the client.

Synergita team will provide a unique “**Authorization**” key value for each customer/tenant when enable API access is granted.

The service will return “**Invalid Authorization header/Authentication failed**” as response when the client passes invalid or modified authorization key value in the request.

REST API - Employee

1. Get Employee Details

This service is used to retrieve basic details for a given employee ID.

URL : /api/employeeapi/GetEmployeeBasicDetailsByEmployeeId

Method : GET

Parameters

Name	Description
EmployeeId*	Each employee will be assigned with a unique identifier. This service returns basic details for the given employeeId.

* - indicates Mandatory fields;

Request Sample from POSTMAN

```
GET /api/employeeapi/GetEmployeeBasicDetailsByEmployeeId?EmployeeId=DC29E36F-E2E6-E511-88DD-22000B2483FB HTTP/1.1
Host: xxxx.synergita.com
Content-Type: application/json
Authorization: Basic
N0YwQjcyQzctNjQ1Q1FNTExLTg4REQtMjIwM0ZCL2FkbWluQGJyYWtlc2luZGhLmNvb
Tp6Z21XY0tIT05ucz0=
Cache-Control: no-cache
```

Synergita – REST API Specification Document

2. Get Team Details

This service returns data of all the team members for the given manager. This method accepts parameter to retrieve the employee data.

URL : /api/employeeapi/GetEmployeeTeamDetails

Method : GET

Parameters

Name	Description
PageIndex*	Starting page number of employee records. Default value is 1. This parameter will be useful when client wants to retrieve records from a specific page.
PageSize*	No. of employees records to be retrieved per page. This parameter will be useful when client wants to retrieve page specific records;
SortString	Pass on one of the following values to sort the employee records returned. <ul style="list-style-type: none">• EmployeeId• FirstName• EmployeeNumber
SortDirection	Sort mode of employee records; either ASC or DESC
SearchString	To perform search based on the given string in the employee records.
RelationshipId	To filter employee records based on Relationship.
EmployeeId	Employee's unique identifier. The service returns employees details who are reporting to given employeeId.
Status	To fetch either Active/Inactive employee records; True – will fetch active employee records False – will fetch inactive employee records.

* - indicates Mandatory fields;

Request Sample from POSTMAN:

Synergita – REST API Specification Document

```
GET /api/employeeapi/GetEmployeeTeamDetails?PageIndex=1&PageSize=2000&SortString=EmployeeId&SortDirection=ASC&SearchString=&EmployeeId=null&RelationshipId=&Status=true HTTP/1.1
Host: xxxxx.synergita.com
Content-Type: application/json
Authorization: Basic
N0YwQjcyQzctNjQ1Qi1FNTEyLTg4REQtMjIwMDZCL2FkbWluQGJyYWtlc2luZGhLmNvb
Tp6Z21XY0tIT05ucz0=
Cache-Control: no-cache
```

3. Add Employee

This service is used to add one or more employee records.

URL : /api/employeeapi/AddEmployee

Method : POST

Parameters

Name	Description	Type
EmployeeNumber*	Employee number is unique id	string
FirstName*		string
MiddleName		string
LastName		string
DateOfBirth	Date Of Birth should be in the format yyyy- MMM-dd	date
Gender		string
DateOfJoining	Date Of Joining should be in the format yyyy- MMM-dd	date
EmployeeStatusId	Probation/Confirmed	string
EmployeeStatusEffectiveFrom	Employee Status Effective From should be in the format yyyy- MMM-dd	date
EmployeeTypeId	Permanent/Contract	string
EmployeeTypeEffectiveFrom	Employee Type Effective from should be in the format yyyy- MMM-dd	date
LocationId	Location name	string
LocationEffectiveFrom	Location Effective from should be in the format yyyy- MMM-dd	date



Synergita – REST API Specification Document

DesignationId	Designation	string
DesignationEffectiveFrom	Designation Effective from should be in the format yyyy-MMM-dd	date
EmailId		string
IMId	IM username	string
UserId		string
UserName*		string
Password		string
OfficePhone		string
ContactNumber		string
Photo	URL	string
DateOfRelieving	Date of Relieving should be in the format yyyy-MMM-dd	date
Reason	Applicable list values	string
RelievingType	Applicable list values	string
Comments	Comments for Relieving	string
LevelId	Level of employee	string
LevelEffectiveFrom	Level Effective date from should be in the format yyyy-MMM-dd	date
PracticeId	Practice name of employee	string
ModeofEntryID	Applicable list values	string
PracticeEffectiveFrom	Practice Effective from should be in the format yyyy-MMM-dd	date
Company		string
Division		string
Department		string
OrgUnitEffectiveFromDate	Organization Effective from should be in the format yyyy-MMM-dd	date
CreatedBy	Created user name	string
CreatedOn	Create on Date Time	date
UpdatedBy	Updated user name	string
UpdatedOn	Updated On Date Time	date
PrimaryManager	Primary manager's employee number	string
PrimaryManagerEffectiveFrom	Primary Manager Effective From should be in the format yyyy-MMM-dd	date
TrackId	Track name of employee	string
TrackEffectiveFrom	Track Effective from should be in the format yyyy-MMM-dd	date
WorkRoleId	Work Role (If applicable)	string

Synergita – REST API Specification Document

WorkRoleEffectiveFrom	Work Role Effective from should be in the format yyyy-MMM-dd	date
TenantId	Unique tenant ID is provided to each tenant/customer	string
Identifier	Additional Unique identifier for employee	string
ExtendedRow		ExtendedEntityRow
IsTrackingOn		boolean
Status	Active/Inactive	boolean

* - indicates Mandatory fields;

Sample Data

```
[
  {
    "EmployeeNumber": "sample string 2",
    "FirstName": "sample string 3",
    "MiddleName": "sample string 4",
    "LastName": "sample string 5",
    "DateOfBirth": "2017-06-01T15:43:42.302+08:00",
    "Gender": "sample string 6",
    "DateOfJoining": "2017-06-01T15:43:42.302+08:00",
    "EmployeeStatusId": "sample string 8",
    "EmployeeStatusEffectiveFrom": "2017-06-01T15:43:42.302+08:00",
    "EmployeeTypeId": "sample string 10",
    "EmployeeTypeEffectiveFrom": "2017-06-01T15:43:42.302+08:00",
    "LocationId": "sample string 11",
    "LocationEffectiveFrom": "2017-06-01T15:43:42.302+08:00",
    "DesignationId": "sample string 13",
    "DesignationEffectiveFrom": "2017-06-01T15:43:42.302+08:00",
    "EmailId": "sample string 15",
    "IMId": "sample string 16",
    "Status": true,
    "UserId": "sample string 18",
    "UserName": "sample string 19",
    "Password": "sample string 20",
    "OfficePhone": "sample string 21",
    "ContactNumber": "sample string 22",
    "Photo": "sample string 23",
    "DateOfRelieving": "2017-06-01T15:43:42.302+08:00",
    "Reason": "sample string 24",
    "RelievingType": "sample string 25",
    "Comments": "sample string 26",
    "LevelId": "sample string 27",
    "LevelEffectiveFrom": "2017-06-01T15:43:42.302+08:00",
    "PracticeId": "sample string 29",
    "ModeofEntryID": "sample string 30",
    "PracticeEffectiveFrom": "2017-06-01T15:43:42.302+08:00",
    "Company": "sample string 32",
    "Division": "sample string 33",
```


Synergita – REST API Specification Document

```
"Department": "sample string 34",
"OrgUnitEffectiveFromDate": "2017-06-01T15:43:42.302+08:00",
"CreatedBy": "sample string 36",
"CreatedOn": "2017-06-01T15:43:42.302+08:00",
"UpdatedBy": "sample string 38",
"UpdatedOn": "2017-06-01T15:43:42.302+08:00",
"PrimaryManager": "sample string 39",
"PrimaryManagerEffectiveFrom": "2017-06-01T15:43:42.302+08:00",
"TrackId": "sample string 41",
"TrackEffectiveFrom": "2017-06-01T15:43:42.302+08:00",
"WorkRoleId": "sample string 43",
"WorkRoleEffectiveFrom": "2017-06-01T15:43:42.302+08:00",
"TenantId": "sample string 45",
"Identifier": "sample string 68",
"ExtendedRow": {
  "Id": "sample string 1",
  "EntityIdentifier": "sample string 2",
  "ReferenceId": "sample string 3",
  "TenantId": "sample string 4",
  "ExtendedEntityColumnValues": {
    "sample string 1": {
      "Id": "sample string 1",
      "EntityFieldIdentifier": "sample string 2",
      "Value": "sample string 3"
    },
    "sample string 2": {
      "Id": "sample string 1",
      "EntityFieldIdentifier": "sample string 2",
      "Value": "sample string 3"
    }
  }
},
"IsTrackingOn": true
}
]
```

4. Update Employee

This service is used to update existing employee record. It accepts list of employee records to be updated as input.

URL : /api/employeeapi/ ManageEmployeeDetails

Method : POST

Parameters

Name	Description	Type
------	-------------	------



Synergita – REST API Specification Document

EmployeeNumber*	Employee number is unique id	string
FirstName*		string
MiddleName		string
LastName		string
DateOfBirth	Date Of Birth should be in the format yyyy- MMM-dd	date
Gender		string
DateOfJoining	Date Of Joining should be in the format yyyy- MMM-dd	date
EmployeeStatusId	Probation/Confirmed	string
EmployeeStatusEffectiveFrom	Employee Status Effective From should be in the format yyyy- MMM-dd	date
EmployeeTypeId	Permanent/Contract	string
EmployeeTypeEffectiveFrom	Employee Type Effective from should be in the format yyyy- MMM-dd	date
LocationId	Location name	string
LocationEffectiveFrom	Location Effective from should be in the format yyyy- MMM-dd	date
DesignationId	Designation	string
DesignationEffectiveFrom	Designation Effective from should be in the format yyyy- MMM-dd	date
EmailId		string
IMId	IM username	string
UserId		string
UserName*		string
Password		string
OfficePhone		string
ContactNumber		string
Photo	URL	string
DateOfRelieving	Date of Relieving should be in the format yyyy- MMM-dd	date
Reason	Applicable list values	string
RelievingType	Applicable list values	string
Comments	Comments for Relieving	string
LevelId	Level of employee	string
LevelEffectiveFrom	Level Effective date from should be in the format yyyy- MMM-dd	date
PracticeId	Practice name of employee	string
ModeofEntryID	Applicable list values	string
PracticeEffectiveFrom	Practice Effective from should be in the format yyyy- MMM-dd	date

Synergita – REST API Specification Document

Company		string
Division		string
Department		string
OrgUnitEffectiveFromDate	Organization Effective from should be in the format yyyy-MMM-dd	date
CreatedBy	Created user name	string
CreatedOn	Create on Date Time	date
UpdatedBy	Updated user name	string
UpdatedOn	Updated On Date Time	date
PrimaryManager	Primary manager's employee number	string
PrimaryManagerEffectiveFrom	Primary Manager Effective From should be in the format yyyy-MMM-dd	date
TrackId	Track name of employee	string
TrackEffectiveFrom	Track Effective from should be in the format yyyy-MMM-dd	date
WorkRoleId	Work Role (If applicable)	string
WorkRoleEffectiveFrom	Work Role Effective from should be in the format yyyy-MMM-dd	date
TenantId	Unique tenant ID is provided to each tenant/customer	string
Identifier	Additional Unique identifier for employee	string
ExtendedRow		ExtendedEntityRow
IsTrackingOn		boolean
Status	Active/Inactive	boolean

* - indicates Mandatory fields;

Sample Data

```
[
  {
    "EmployeeNumber": "sample string 2",
    "FirstName": "sample string 3",
    "MiddleName": "sample string 4",
    "LastName": "sample string 5",
    "DateOfBirth": "2017-06-01T15:43:42.302+08:00",
    "Gender": "sample string 6",
    "DateOfJoining": "2017-06-01T15:43:42.302+08:00",
    "EmployeeStatusId": "sample string 8",
    "EmployeeStatusEffectiveFrom": "2017-06-01T15:43:42.302+08:00",
    "EmployeeTypeId": "sample string 10",
    "EmployeeTypeEffectiveFrom": "2017-06-01T15:43:42.302+08:00",
    "LocationId": "sample string 11",
    "LocationEffectiveFrom": "2017-06-01T15:43:42.302+08:00",
    "DesignationId": "sample string 13",
```

Synergita – REST API Specification Document

```
"DesignationEffectiveFrom": "2017-06-01T15:43:42.302+08:00",
"EmailId": "sample string 15",
"IMId": "sample string 16",
"Status": true,
"UserId": "sample string 18",
"UserName": "sample string 19",
"Password": "sample string 20",
"OfficePhone": "sample string 21",
"ContactNumber": "sample string 22",
"Photo": "sample string 23",
"DateOfRelieving": "2017-06-01T15:43:42.302+08:00",
"Reason": "sample string 24",
"RelievingType": "sample string 25",
"Comments": "sample string 26",
"LevelId": "sample string 27",
"LevelEffectiveFrom": "2017-06-01T15:43:42.302+08:00",
"PracticeId": "sample string 29",
"ModeofEntryID": "sample string 30",
"PracticeEffectiveFrom": "2017-06-01T15:43:42.302+08:00",
"Company": "sample string 32",
"Division": "sample string 33",
"Department": "sample string 34",
"OrgUnitEffectiveFromDate": "2017-06-01T15:43:42.302+08:00",
"CreatedBy": "sample string 36",
"CreatedOn": "2017-06-01T15:43:42.302+08:00",
"UpdatedBy": "sample string 38",
"UpdatedOn": "2017-06-01T15:43:42.302+08:00",
"PrimaryManager": "sample string 39",
"PrimaryManagerEffectiveFrom": "2017-06-01T15:43:42.302+08:00",
"TrackId": "sample string 41",
"TrackEffectiveFrom": "2017-06-01T15:43:42.302+08:00",
"WorkRoleId": "sample string 43",
"WorkRoleEffectiveFrom": "2017-06-01T15:43:42.302+08:00",
"TenantId": "sample string 45",
"Identifier": "sample string 68",
"ExtendedRow": {
  "Id": "sample string 1",
  "EntityIdentifier": "sample string 2",
  "ReferenceId": "sample string 3",
  "TenantId": "sample string 4",
  "ExtendedEntityColumnValues": {
    "sample string 1": {
      "Id": "sample string 1",
      "EntityFieldIdentifier": "sample string 2",
      "Value": "sample string 3"
    },
    "sample string 2": {
      "Id": "sample string 1",
      "EntityFieldIdentifier": "sample string 2",
      "Value": "sample string 3"
    }
  }
}
```

Synergita – REST API Specification Document

```
    },  
    "IsTrackingOn": true  
  }  
]
```



Synergita – REST API Specification Document

5. Deactivate Employee

This service is used to deactivate employees. It accepts list of usernames to deactivate multiple employees at a time.

URL : /api/employeeapi/DeactivateEmployee

Method : POST

Parameters

Array of employee's username.

Sample Data

```
[  
  "Username 1",  
  "Username 2"  
]
```

Rest API - Continuous Feedback

1. Employee Auto suggestion API

URL : silicadevapp.synergita.com/api/ContinuousFeedbackApi/EmployeeSearchBySearchString

Method : POST

Parameters

Name	Description	Type
SearchString	To perform search based on the given string in the employee records.	String
pageindex	Starting page number of employee records. Default value is 1. This parameter will be useful when client wants to retrieve records from a specific page.	String

Synergita – REST API Specification Document

Request Sample from POSTMAN

```
POST /api/ContinuousFeedbackApi/EmployeeSearchBySearchString HTTP/1.1
Host: xxxx.synergita.com
Content-Type: application/json
Authorization: Basic
RTY412312312ODRCRjMtOThBQy1FNjExLUI2QkQtMDA1MDU2QUUyMUFGGL2FydW5AY2FyLmNvb
Tp6Z21XY0tIT05ucz0=
Cache-Control: no-cache
Postman-Token: bf94c576-5aa4-3624-d274-548ddf91cf8a

{
  "searchString": "",
  "pageIndex": "1"
}
```

2. Category API

URL : silicadevapp.synergita.com/api/ContinuousFeedbackApi/LoadCategoryBasedOnVisibility

Method : POST

Parameters

Name	Description	Type
employeeId		String

Request Sample from POSTMAN

```
POST /api/ContinuousFeedbackApi/LoadCategoryBasedOnVisibility HTTP/1.1
Host: xxxx.synergita.com
Authorization: Basic
RTY21232134ODRCRjMtOThBQy1FNjExLUI2QkQtMDA1MDU2QUUyMUFGGL2FydW5AY2FyLmNvbT
p6Z21XY0tIT05ucz0=
Content-Type: application/json
Cache-Control: no-cache
Postman-Token: 10bc2c3a-2b52-d35a-4ae1-8dff6203e830

{
  "employeeId": "vvvvvvvv-vvvv-vvvv-vvvv-vvvvvvvvvvvv"
}
```



Synergita – REST API Specification Document

3. Rewards API

URL : silicadevapp.synergita.com/api/ContinuousFeedbackApi/ LoadRewardBasedOnVisibility

Method : POST

Parameters

Name	Description	Type
EmployeeId		String
ReviewerId		String

Request Sample from POSTMAN

```
POST /api/ContinuousFeedbackApi/LoadRewardBasedOnVisibility HTTP/1.1
Host: xxxx.synergita.com
Content-Type: application/json
Authorization: Basic
RTY4ODRCRjM2366khjtOThBQy1FNjExLUI2QkQtMDA1MDU2QUUyMUFGL2FydW5AY2FyLmNvbTp6Z21XY0tIT05ucz0=
Cache-Control: no-cache
Postman-Token: 06bddf5c-9f0a-8135-0c51-ff78a1e1b96c

{
  "EmployeeId": "vvvvvvvv-vvvv-vvvv-vvvv-vvvvvvvvvvvv"
```

4. Add Feedback API

URL : silicadevapp.synergita.com/api/ContinuousFeedbackApi/PublishFeedback

Method : POST

Parameters

Name	Description	Type
EmployeeId		String
RewardId	Applicable List values	String
CategoryId	Applicable List values	String



Synergita – REST API Specification Document

Comments		String
FeedbackStatus		String

Request Sample from POSTMAN

```
POST /api/ContinuousFeedbackApi/PublishFeedback HTTP/1.1
Host: xxxx.synergita.com
Authorization: Basic
RTY4ODRCRjMtOTBhBQy1FNjExLUI2QkQtMDA1MDU2QUUyMUFGGL2FydW5AY2FyLmNvbTp6Z21XY
OtlT05ucz0=
Content-Type: application/json
Cache-Control: no-cache
Postman-Token: 97b844de-33c5-90d2-51a7-e09e24116ced
```

5. My Continuous Feedback API Method

URL : <http://silicadevapp.synergita.com/api/ContinuousFeedbackApi/MyContinuousFeedback>

Method : POST

Parameters

Name	Description	Type
PageIndex	Starting page number of employee records. Default value is 1. This parameter will be useful when client wants to retrieve records from a specific page.	String
PageSize	No. of feedback records to be retrieved per page.	String
SearchValue		String
EmployeeId		String
CategoryId		String



Synergita – REST API Specification Document

Request Sample from POSTMAN

```
POST /api/ContinuousFeedbackApi/MyContinuousFeedback HTTP/1.1
Host: xxxx.synergita.com
Authorization: Basic
RTY4ODRCRjMtOThasdfsdf4234BQy1FNjExLUI2QkQtMDA1MDU2QUUyMUFG2FydW5AY2FyLmNvbTp6Z21XY0tIT05ucz0=
Content-Type: application/json
Cache-Control: no-cache
Postman-Token: 16af7855-9a4f-7c09-e938-06927df904f9
```

6. Continuous Feedback Wall API Method

URL : silicadevapp.synergita.com/api/ContinuousFeedbackApi/ContinuousFeedbackWall

Method : POST

Parameters

Name	Description	Type
PageSize	No. of feedback records to be retrieved per page.	String
PageIndex	Starting page number of employee records. Default value is 1. This parameter will be useful when client wants to retrieve records from a specific page.	String
SearchValue		String
CategoryId		String

Request Sample from POSTMAN

```
POST /api/ContinuousFeedbackApi/ContinuousFeedbackWall HTTP/1.1
Host: xxxx.synergita.com
Authorization: Basic
RTY4ODRCRj1MtOThBQy12451FNjExLUI2QkQtMDA1M245DU2QUUyMUFG2FydW5AY2FyLmNvbTp6Z21XY0tIT05ucz0=
Content-Type: application/json
Cache-Control: no-cache
Postman-Token: 7e446550-77d7-da42-2354-f494b3893c32
```

Synergita – REST API Specification Document

Modification History

Date	Author(s)	Change description	Version
May 15, 2017	Jabarullah B	Initial draft capturing employee detail services	0.1
May 17, 2017	Prabakar M	Reviewed and approved	1.0
September 21, 2017	Jabarullah B	Add, Update and Deactivate employee services added	1.1
September 25, 2017	Prabakar M	Reviewed and approved	1.2
Jan 5, 2018	Rakul U / Prabakar M	Added continuous feedback related API methods	1.3