# API Catalog for maximizing reuse design

UI Navigation:

Search API

User Login

Enter search value

Select search by filter

Contact Owner by Email

Matching API list displayed

Search filter options: Category, Model, Name, Description, MAL Acronym

Add/Create API

Add API

Submit Form

User Login

Fill API details

Update/Edit API

User Login

From list select API to edit

Click on Edit

Save

From list select API to edit

Select My API Tab

createAPIsvc (with swagger URL)

{

apiName: submitOrder,

apiDescription: description,

appMALAcronym: BMOM,

apiCategory : Ordering,

apiSwaggerURL: url,

user\_cuid: cuid,

[ { modelName: model1,

modelType: Request

},

{modelName:model2,

modelType: Response

}

]

}

--In this createAPI processing, call swagger URL to extract Models info and store in database with other API details.

getAPIByCategory(category)

Response:

[

{

Api Name: value,

Category: value,

Description: value,

Swagger URL: value,

User\_cuid: value

}.

{

Api Name: value,

Category: value,

Description: value,

Swagger URL: value,

User\_cuid: value

}

]

getAPIByAPIName(name)

getAPIByAPIDesc(desc)

++getAPIByModel(model\_name, model\_type)

++getAPIByAppName(app\_name)

++getAPIByUserId(user\_cuid)

++getCategoryList()

++getAppList()

searchAPI(searchText)

database:

Oracle / MySQL DB

api\_category

category\_id int not null

category\_name varchar 600 not null

create\_date date not null

api\_info

api\_id (int) NOT null

create\_date (date) NOT null

modified\_date (date) NOT null

category\_id (foreign key) int NOT null

user\_id (foreign key) int not null

app\_id (foreign key) int not null

status (varchar) (values ACTIVE/INACTIVE) NOT null

api\_name (varchar 1000) NOT null

api\_desc (varchar 2000)

swagger\_url (varchar 1000)

api\_model

model\_id (int) not null

create\_date (date) not null

status (varchar values ACTIVE/INACTIVE) not null

api\_id (foreign key) int not null

model\_name varchar 600 not null

api\_user\_profile

user\_id int not null autoincrement primary key

user\_cuid varchar(10) not null

first\_name

last\_name

email\_address

supervisor\_cuid

api\_application

app\_id int not null primary key

app\_name varchar(100) not null

# Notification Flow (search event)

Search API

Event based notification, search of an API which is not 100% complete based on missing details will trigger email to API owner. Check if swagger URL and / or models are available? If not request owner to add swagger URL and models to complete this API.

For the API list based on search criteria, check swagger URL and models are present or not, if either one or both of them are not present then trigger email notification.

Yes

No

No

Swagger URL?

Send Email to owner

Models Mapped to API ?

# Scheduled notification (at regular interval)

Swagger URL is present and at least one model for each model type of request/response is available per API to excluded from the list.

List API with missing swagger URL or models

Create new service to get list of API with missing swagger or missing models. This can be scheduled every 7 days.

Send Email to API owner