**Project Overview**

**Project Title:** Python Utility for Service Search Text Synchronization.

**Project Description**

This project will develope a python utility that will synchronize ServiceSearchText with PostgreSQL database. The utility will be checking two database tables tbl\_service\_tag and tbl\_service\_category . If the updated flag is True then it retrieves all the data from both the tables and creates a JSON file which contains array of ‘ServiceSearchText’ objects

*The utility is designed to ensure that the ‘ServiceSearchText’ used by any application is up-to-date with the latest information in the database.*

**Project Scope:**

1. A python script that automates the synchronization process.
2. A JSON file named ServiceSearchText.json file that will be storing the synchronized json file.
3. The utility will synchronize data from the following two postgreSQL tables:

* tbl\_service\_tag
* tbl\_service\_category

1. It creates two database tables tbl\_service\_category and tbl\_service\_tag both the tables will help in retrieving data and creating the synchronized JSON file.
2. The utility will update the ‘service\_search\_text.json file with an array of ‘ServiceSearchText’ objects containing the following attributes:

* service\_tag (integer, nullable)
* service\_category (array of integers)
* service\_search\_text (text)

**Requirements:**

* The utility shall connect to PostgreSQL database.
* The utility shall query tbl\_service\_tag and tbl\_service\_category tables for records updated flag set to True.
* For each record in the tbl\_service\_category with updated ‘True’:

Create a ‘ServiceSearchText’ object with:

* service\_tag set to null
* service\_category set to the id
* service\_search\_text set to the name field
* For each record in the tbl\_service\_tag with updated ‘True’ :

Create a ‘ServiceSearchText’ object with:

* service\_tag set to id
* service\_category set to categories
* service\_search\_text set to the name field
* The utility shall replace any existing ‘service\_search\_text.json’ file.
* The utility shall set the updated flag to False for all records in both ‘tbl\_service\_tag’ and ‘tbl\_service\_category’ tables to avoid duplication in further runs.