|  |  |
| --- | --- |
| Project: | POC Search Tool |
| Author: | DTS |
| Status: | Review | |
| Version: | R1.0 | |
| Date: | 09-06-2023 | |

|  |
| --- |
| This document contains confidential and proprietary information of Liaison/Harman POC projects. Except with the express prior written permission of Harman (HCS), this document and the information contained herein may not be published, disclosed, or used for any other purpose. |

# Document History

|  |  |  |  |
| --- | --- | --- | --- |
| ***Version*** | ***Date*** | ***Changed by*** | ***Comments*** |
| 1.0 | 02-Feb-2023 | Arvind Kumar | Created the template for Search Tool v1.0 |
| 1.1 |  |  |  |

# Acronyms

|  |  |
| --- | --- |
| **Name** | **Description** |
| HCS | Harman Connected Services |
| DTS | Digital Transformation Services |
|  |  |
|  |  |

# Index

[1. Document History 2](#_Toc135083184)

[2. Acronyms 2](#_Toc135083185)

[3. Index 3](#_Toc135083186)

[4. Summary 4](#_Toc135083187)

[5. About this Release 4](#_Toc135083188)

[5.1 Release Content 4](#_Toc135083189)

[5.2 Release Environment 4](#_Toc135083190)

[6. Dependencies 4](#_Toc135083191)

[7. Pre-Deployment Steps 5](#_Toc135083192)

[8. Stopping the web applications 5](#_Toc135083193)

[9. Files & Configuration Deployments 5](#_Toc135083194)

[10. Database Deployment 5](#_Toc135083195)

[10.1 Backup and restore database steps 5](#_Toc135083196)

[10.2 Script to be executed 5](#_Toc135083197)

[11. Web Site(s) deployment 5](#_Toc135083198)

[11.1 Web Application 5](#_Toc135083199)

[12. Web Service(s) deployment 6](#_Toc135083200)

[12.1 AvMed.Client.API 6](#_Toc135083201)

[13. Starting the web applications 6](#_Toc135083202)

[14. Windows Services 6](#_Toc135083203)

[15. List of Functionalities included in this release. 6](#_Toc135083204)

[16. List of known issues. 6](#_Toc135083205)

# Summary

This document has the details of how to deploy the latest version of the Search Tool (application) on the local/server (i.e. UI, Service API, database, Server configuration, external dependency etc.). Also, this document has release information as well.

# About this Release

The purpose of this release is to deliver updated versions of Search Tool (Liaison) application and supporting applications/ services/ enhancements.

## Release Content

|  |  |
| --- | --- |
| **Release Components** | Yes/No |
| Web Application | Yes |
| Services API | Yes |
| External Windows Services | No |
| Database | Yes |
|  |  |

## Release Environment

Local/Server Environment details:

|  |  |
| --- | --- |
| **Particulars** | Local / Server |
| Servers (*number*) | 1 Server |
| Domain name | http://127.0.0.1:5000 |
|  |  |
|  |  |
| Static IP |  |
| Port No |  |
| Service Account |  |
| Hardware config | 1TB HDD, 8GB RAM, Dual Core. Windows is must. |
|  |  |

# Dependencies

# 2GB diskspace required.

# Web Browsers like Chrome, Firefox, Edge to access the web interface.

* 1. Python 3.9 or higher. Note: Make sure to **add Python to the path while installing**.

# PostgreSQL database.

* 1. Python Libraries – Check Pre-deployment steps to install

1. autocorrect==2.6.1
2. Flask==2.3.2
3. Flask\_Cors==3.0.10
4. psycopg2==2.9.6
5. psycopg2\_binary==2.9.6
6. rapidfuzz==3.1.1
7. sentence\_transformers==2.2.2
8. SQLAlchemy==2.0.15
9. torch==2.0.1

# Pre-Deployment Steps

|  |  |
| --- | --- |
| **Description** | **Required** |
| **Web site** |  |
| Download all the files from SharePoint and save them in a folder. To download the files use the link: <https://oneharman-my.sharepoint.com/:f:/g/personal/kiran_bv_harman_com/Eo_4H9B-KZxHqyBOIo6B_bcB_8zFUhs9O-2YU7Kj2fS0FQ?e=vgf3sD> | Yes |
| Pip install all the Python libraries mentioned in dependencies in the command prompt. You can only do this if you add Python to your path while installation.  You can install all below libraries one by one or you can use requirements.txt file that lists all the necessary Python libraries, which can be installed using pip: **pip install -r requirements.txt**. | Yes |
| After successfully installing postgre to add the course\_subject\_finder.sql to the database check Database deployment “Restore database” steps for instructions. | Yes |
| After doing all the above steps you will be able to run the web application on the browser | Yes |
| **Web Services** |  |
| After setting up your environment to run the website make sure you have all the below file in your project directory |  |
| 1. search.py | Yes |
| 1. app.py | Yes |
| 1. config.py | Yes |
| **Window Services** | None |
| None |  |
|  |  |
|  |  |

# Stopping the web applications

1. **Stop accessing the below site in IIS**

# Files & Configuration Deployments

1. Specific files to be deployed.

* Index.html, index.css, index.js
* Search.py, app.py
* Database, libraries, requirements.txt

1. Umbraco labels change & Tasks

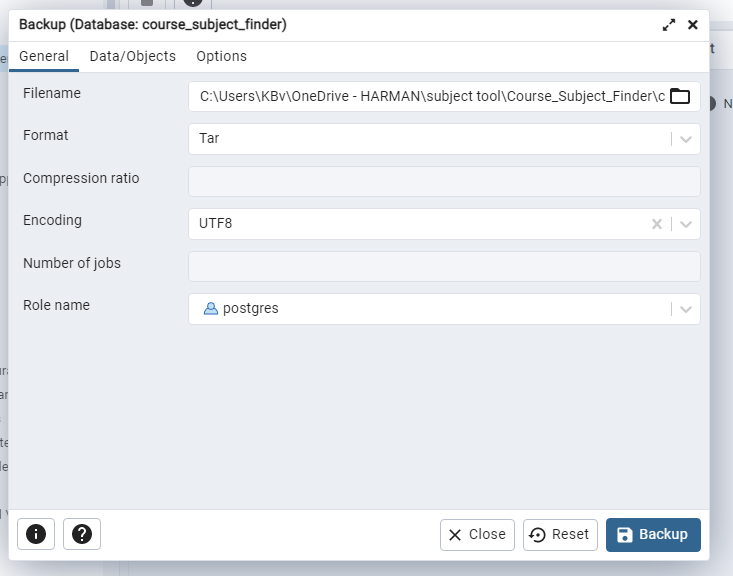
* Add new if any

# Database Deployment

## Backup and restore database steps.

**To backup the database on Postgre**

* 1. In pgAdmin4 right click on database you have to backup
  2. Select Backup
  3. Save the file as shown below in the screenshot.



* 1. After entering all the details click on Backup. Your file should successfully complete backup. As shown in below screenshot and file will be saved in the folder you selected.

A screenshot of a computer

Description automatically generated with medium confidence

**To Restore the course\_subject\_finder.sql**

* 1. In pgAdmin4 right click on databases and click on Create>Databases
  2. Enter database name as course\_subject\_finder. Let owner be by default ‘postgres’
  3. Now new database course\_subject\_finder is created under Databases.
  4. Right click on course\_subject\_finder and select Restore.
  5. In Restore select the file you want to restore as shown below. Then click on Restore.

A screenshot of a computer

Description automatically generated with medium confidence

* 1. If database is successfully restored under course\_subject\_finder you can see the existing tables under Tables menu like show in below screenshot.

A screenshot of a computer

Description automatically generated

# After setting up database you have to setup the config.py

class Config(object):

    DB\_USERNAME = 'DB\_USERNAME' # The name of the environment variable is 'Your DB\_USERNAME'

    DB\_PASSWORD = 'DB\_PASSWORD' # The name of the environment variable is 'Your DB\_PASSWORD'

    DB\_NAME = 'DB\_NAME' # The name of the environment variable is ‘course\_subject\_finder’

    DB\_HOST = 'DB\_HOST' # The name of the environment variable is 'localhost

    DB\_PORT = 'DB\_PORT' # The name of the environment variable is '5432'

## Script to be executed.

course\_subject\_finder.sql

# Web Site(s) deployment

## Web Application

1. Index.html, index.css, index.js

# Web Service(s) deployment

* 1. Search.py, app.py
  2. Libraries from requirements.txt

# Starting the web applications

**Put the below site online**

1. Open the app.py server file using python.
2. http://127.0.0.1:5000

# Windows Services

None

# List of Functionalities included in this release.

|  |  |  |
| --- | --- | --- |
| **ID** | **Work Item Type** | **Title** |
| 01 | Course Prefix | Fetch Course Prefix from the database |
| 02 | Course Title | Fetch Course Title from the database |
| 03 | Search | Course Subject Search |
| 04 | Department | Fetch Department from the database |
| 05 | Course Subject | Course Subject prediction |
|  |  |  |
|  |  |  |

# List of known issues.

1. Add if any