**Generic Document Management System (DMS) Service Report**

**Executive Summary:**

The **Document Management System (DMS)** offers a suite of RESTful APIs tailored to streamline document operations and data synchronization for **businesses and customers**. These APIs facilitate a range of functionalities, including business and sub-business management, **file** and **folder** operations, **recycle bin** management for soft-deleted items, and customer management. Additionally, integration with Azure Blob Service allows efficient storage management. Each API serves a specific purpose, such as **creating and updating business details, managing directories, uploading files, and retrieving usage information**. With these functionalities, the **DMS** provides a comprehensive solution for organizing documents Utilizing Azure Blob storage for file storage.

**Introduction:**

The DMS is integrated seamlessly with the ERP system to streamline document handling processes and enhance data accessibility and organization.

**Architecture Overview:**

* **Backend [Django] :** Application layer responsible for processing user requests, interacting with the database, and managing file storage.
* **Database [MSSQL] :** Stores metadata and relational information about documents, folders, businesses, and customers .
* **Azure Blob Storage:** Securely stores document files, providing scalability and high availability.

**Key Features:**

* **Business Management:** Allows CRUD operations for managing main business entities and their associated details. This includes creating, updating, retrieving, and deleting information about businesses and their child entities.
* **File and Folder Management:** Provides functionalities for managing files and directories for businesses and customers. This includes uploading files, creating folders, retrieving file/folder details, and managing storage usage.
* **Recycle Bin Management:** Manages soft-deleted files and directories for businesses and customers, allowing for the restoration of deleted items if needed.
* **Customer Management:** Offers functionalities for managing directories and files for customers, along with retrieving usage details and root directory information.
* **Azure Blob Service Integration:** Includes functionality to empty containers created on Azure Blob Service, helping to manage storage resources efficiently.

**System Components:**

* **API Layer:** Exposes RESTful APIs for integrating with the frontend and ERP system, facilitating document operations and data synchronization.
  + **Implemented APIs**:
    - **createBusiness**:

This API viewset is responsible for business Cruds along the update information of package details of business

* **createSubBusiness:**  
   This API viewset is responsible for Cruds of child business.
* **subBusinessDetails**:

API Returns the details of Child business

* **createBusinessFolder:**

This Viewset Class Is responsible for Directory management for a business

* **uploadBusinessFile:**  
   This viewset Holds the functionality of File management against business and storage usage updates.
* **getSingleFile:**  
   This API returns A single file requested by a user or owner of a business.
* **getFileFolder:**  
   This API returns the directory Along with content of that directory
* **createSubBusinessFolder:**  
   This Viewset  holds CRUD For Directory management of a child business`
* **uploadSubBusinessFile:**  
   This Viewset Holds the Cruds for content files management for a business and resource Usage tracking
* **RecycleBinBusiness:**  
   This API viewsets is responsible for managing soft deleted files/directories
* **createFolder:**  
   This API holds the directory Management for Customers.
* **uploadFile:**

This API holds the file Management for Customers along with their storage usage.

* **getSingleFile:**

This API returns A single file requested by a Customer.

* **getFileFolder:**  
   This API returns A directory with its contents requested by a customer.
* **RecycleBin:**  
   This API viewsets is responsible for managing soft deleted files/directories for a customer
* **emptyConatiner:**  
   This API is responsible for removing the contents of a Container created on azure Blob Service.
* **userRoot:**  
   This API returns the customers Root Directories Info.
* **userDetails:**  
   This API returns the Usage details of a customer