**Version History**

**SRS - Search Documents (System Requirements Specification)**

**Version 1.0**

**March 15th, 2020**

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| Version | Release Date | Modified by | Revisions |
| 1.0 | 13/03/2020 | Anil Adusumalli | Initial draft version |
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**Document Reviewed By**

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| Version | Department/Function | Reviewer Name(s) |
| 1.0 |  |  |
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**References**

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# Introduction

**Business Case:**

As a Business User, we have received a palette of hard drives containing text documents. We do not know how many text documents exist at this time but we expect at least one more palette in the future. Initial estimate suggests 900 Million plus documents.

We need the ability to execute multiple searches to locate any of these text documents containing one or more key words. E.g. find me all documents containing the word “elephant” . Results should be returned in reasonable time nominally under 1 hr.

# Define File Search Criteria

Define file search criteria to find documents in source systems.

* Search by keywords ( Ex: Elephant )
* Search by File and Folders names
* search by date
* search by size, etc..

# Results

* The documents returned by Search criteria should to be stored in DB
* Document meta data ( TBD)
* Documents content (TBD)

# Create new Document Content Store DB

## Create the Document Meta Data schema

DBA will have to create a new DB, which will only contain the Document Meta Data schema for the documents. Metadata of a Document is typically details like Document Name, Size, File type, created date, user, etc.

# Security changes to allow for ad-hoc users usage

## Current Security Overview

The Everyone group (which holds all authenticated users) is included into the ‘Search Users’ role. Due to this, users have access to all functions and folders in the portal. However, the ‘Search Users’ role is removed from the Capabilities list.

## Security changes needed for SRS Pre-Prod, to allow for access

### Create new security role

The role ‘pre-prod adhoc users’ needs to be added into the user’s namespace. Note that any user that must be setup as adhoc user, will need to be added as a member into this role.

### Set security for the new role

The following security needs to be set on the new role :

Change the Permissions for the ‘pre-prod adhoc users’ role :

Delete all roles and add in the ‘pre-prod adhoc users’ role and give it the permissions: Read + Execute + Traverse

## Additional Information required for Requirements:

* how big are the files ? (Average file size)
* if you plan to add more files later (update the index would be needed, and maybe a scalable solution too for a lot more than 1000 files)
* how many times you want to search a particular string?
* how fast should be the system under heavy concurrency (multiple users searching in the same time)
* how fast do you want the results returned (seconds is fine or milliseconds is desired?)