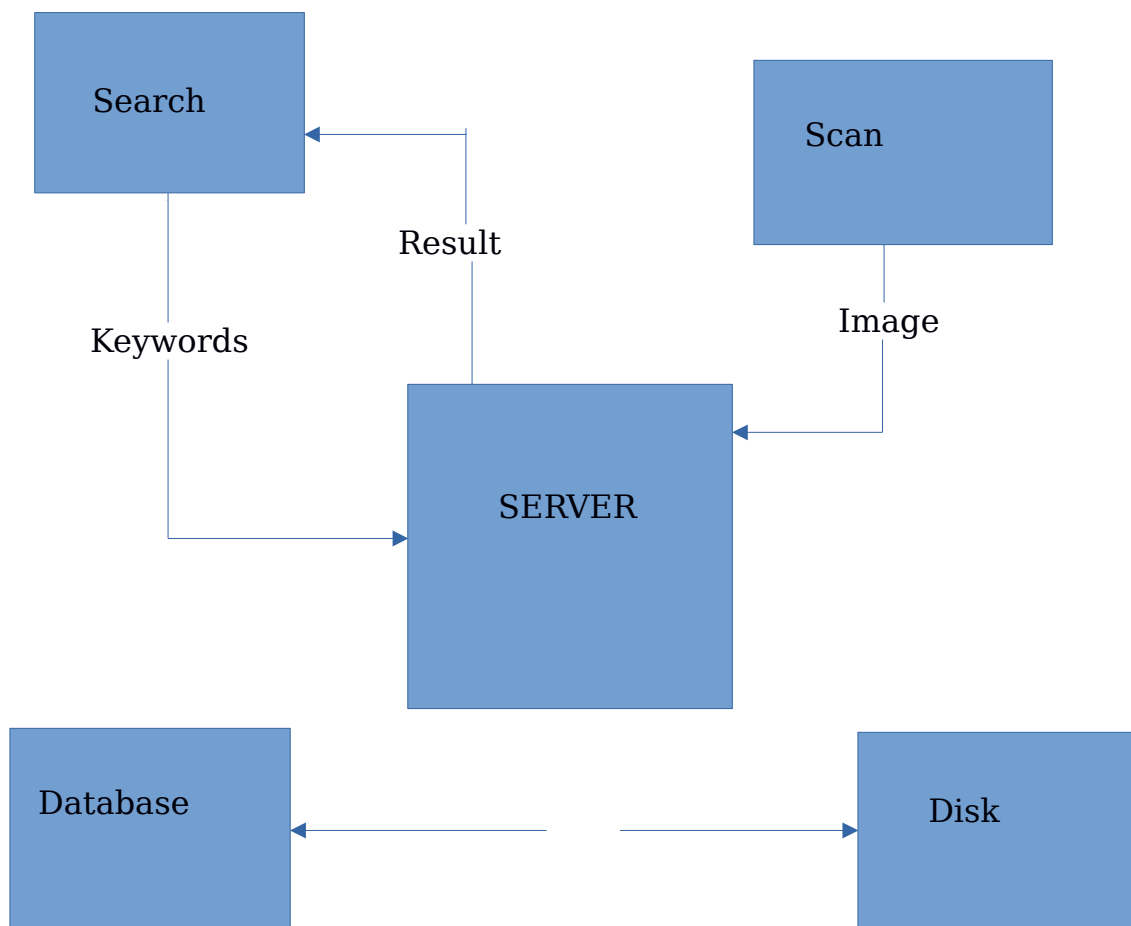# SCANDOC

The system is used to transfer text from a .txt file and add it to thye database. It also copies the file to a required destination and saves this disk path in the database. The database also stores the physical location i.e. the place where the hard copy of the database is stored.

The system contains 5 parts.
1. The scanner : This will be connested to a device that will hold the image of the location.
2. The server : This contains ICR. ICR converts the image into a string of keywords.
3. The Database: This will store the keywords with the corresponding Doc_Id.
4. The Disk : This will be a directory containing all the scanned Images.
5. The WebApp : The search engine that will search the keyword and display files conatining it.

The application provides unique feature of scanning Hard copies and converting and storing soft caopies. Beacuse the hard copy location is also linked to the system, The location of hard copy will be dispalyed. This will also make obtaining Hard copy of the Document easier.

working:

SCAN and UPLOAD
The scanner sacns the documents and creates an image. The image is then stored on the current device in the same hierarchy as the physical storage. The distace then transefers the image directory to the server. The images can be typically of any image format i.e. png,jpeg etc. It also records the File number(necessary), and box number, Rack number, Room number(Optional).

DATABASE

The database cosisits of two tables. Docs and Location. The two are connected using a foreign key '**file_no**'. The tables are shown as follows

DOCS

doc_id	Keywords	file_no
A pseuodo-id given for identificatio. Also the **primary key**	Contains all the words inside a document. Is the primary searching column.	File number of the file containing the document. It is a **foreign key**. Links to **Location** table.

LOCATION

File_no	File_id	Box _no	Rack_no	Room_no
Is a dummy id. It is also **primary key**	Contains file number which is same as that on the hard copy. Is unique for consumer.	Contains the number of the box that contains the file. Is nullable.	Contains the number of the rack that contains the file. Is nullable.	Contains the number of the room that contains the file. Is nullable.

File_no which is the primary key is the foreign key of Docs.
The primary keys i.e. doc_id and file_no are Auto incremented and automatically generated by the database.

The Server :

The Server is connected to all the components of the Application. It accepts image from and upload. The image is then passed on the ICR which is inside the server. The ICR processes the image and generates the keywords. The keywords are passed on to the database. The server also accepts the physical location information viz. Box_no, Rack_no, Room_no to the database. The server also runs file transfer function that transfers the directories which are on the device to the disk.

The Disk :

The Disk is the main storage facility. The disk stores all the images which are received from the connecting device. The Connecting device follows the same hierarchy as the physical storage. Therefore the disk merely recieves all the directories from the server and adds it to the stoage. The Disk is usually regularly sysnced.

The Application :

The Application is a two page process. The first page consisits of the search engine where you type the string of keyword(s). The keywords are then checked against the keywords column from the database and the matching results are displayed on the second page.

Scope of Work

Requirements :
1. The system setup space i.e. the space required to set up the system. The system contains a printer and the computer.
2. Internet Connectivity : The images need to be uploaded to the server at the end and hence internet connectivity is required.
3. We will need the hard copies of the documents we need to scan.
4. We will also need access to storage space where we can store the document according to the hierarchy.

Features :
1. Saving search time : To search for a perticular user or address, just type the keyword and the information i.e. the documents loaction will be shown. Our software also allows you to view the soft-copy of the image.
2. Training will be provided for the use of the software.
3. Servers databases as well as disk storage space will be provided.
4. The documents will be scaneed and indexed for the first time by us
5. We will also provide maintaince for the system. Maitainance include following points
   i. Maitainance of the Server, database and Disk.
      We will provide with guaranteed database and disk location storage. Any threats will be dealt and required upgrades will be provided.
   ii. We will regularly upgrade the system with necessary updates.
   iii. We will provide hardware maintaince.