Project Synopsis

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Instant File Search Utility

Aim:

Aim of the project is to develop a GUI driven file search utility for the user, providing them a way to quickly find the locations of files over their local hard drives.

Platform

Language: Java

RDBMS: Oracle 11g

Functionality:

- Automatic indexing of all local drives of the system on regular period of time.
- Ability for user to set the time interval for perform indexing operation.
- Ability to retrieve specified file name's location based upon patterns like, exact match, wildcards, file extension type.
- Ability to retrieve all the duplicate files present in the system.
- Automatically minimizes to taskbar (On pressing close button [X]), helps user to perform their other daily activities & enables application to perform the file indexing over specific time intervals. (Utility is closed through system tray)
- Enables the user to perform the on-demand file indexing through application's system tray icon.
- Opens file on double click*

Module:

1. **Basic GUI:**

   This is the basic interface, which enables the user the use the application. The user can input the desired file name in the provided text field, & the search results are presented on basics of specific patterns provided in check boxes.

   Available patterns:

   1) Exact Match

      Returns the file name, type, location, if user query matches exactly to the file name in the database. (Default)

   2) Contains Any

      Returns the file name, type, location, if user query string contains on any of the files.

   3) With any extension

Returns the file name, type, location, if user query matches file name which can have any extension (returns all filename which starts wit query string)

4) Get Duplicates

Returns the file name, type, location, of the files indexed in the system.

5) By extension

Returns all the file name,type & location on user specified file extension.

2. File Indexer:

A module which performs the file traversal operation & handles the name, type & location to database over specific period of time. It runs on a seperate thread.

3. System Tray:

Module which helps the user to perform on-demand indexing operation, view about & helps to exit application from system tray.

4. Database:

Module which handles the database operations & stores the index file details.

Table Design:

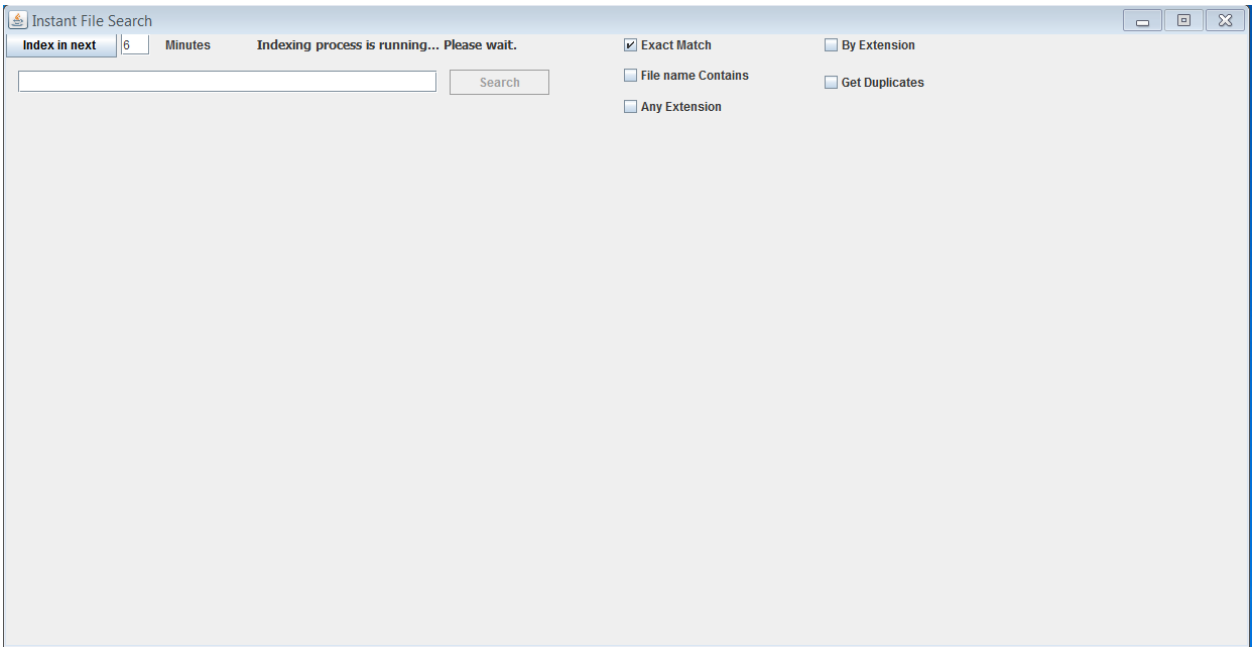
MTAB

Drives	varchar2(2)	Primary Key

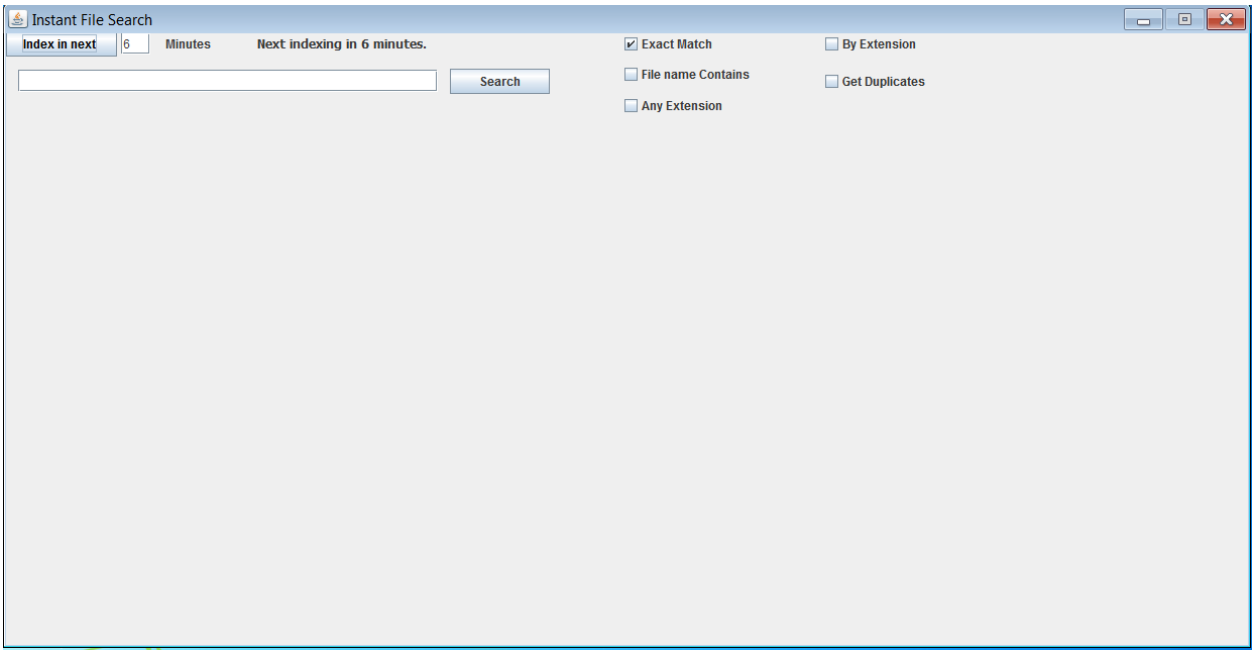
TAB-FS

Drives	varchar2(2)	Foreign Key(MTAB.Drives)
File Name	varchar2(100)	-
File Location	varchar2(200)	-
File Type	varchar2(10)	-

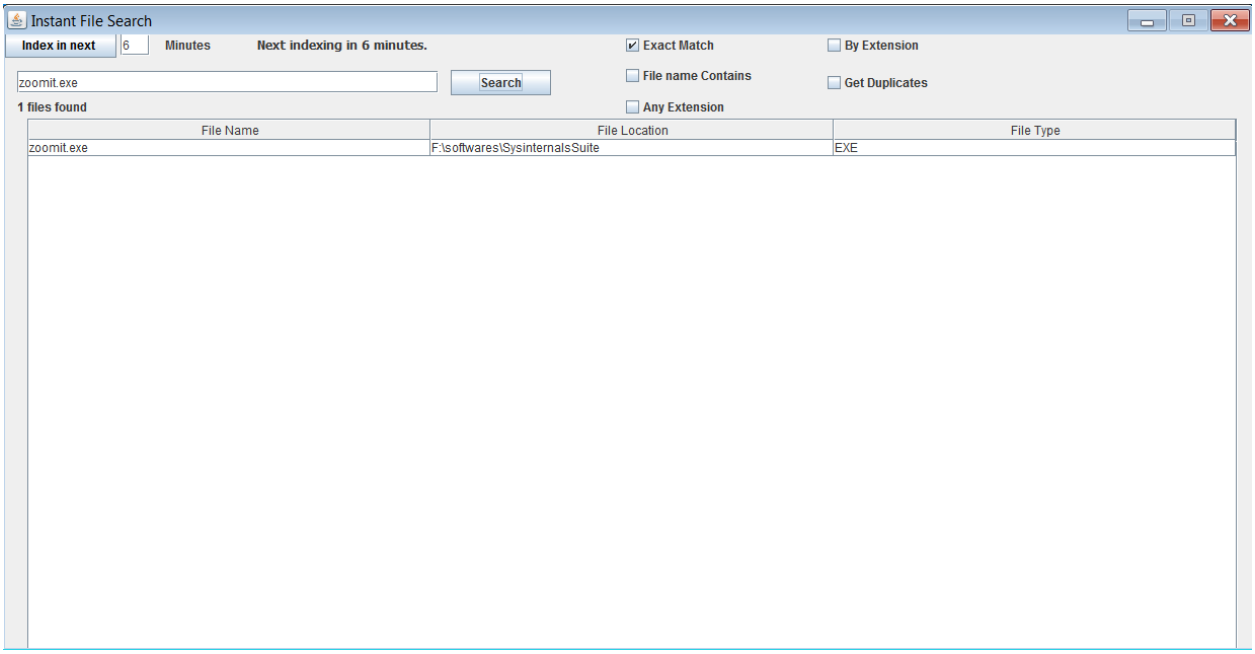
Forms:



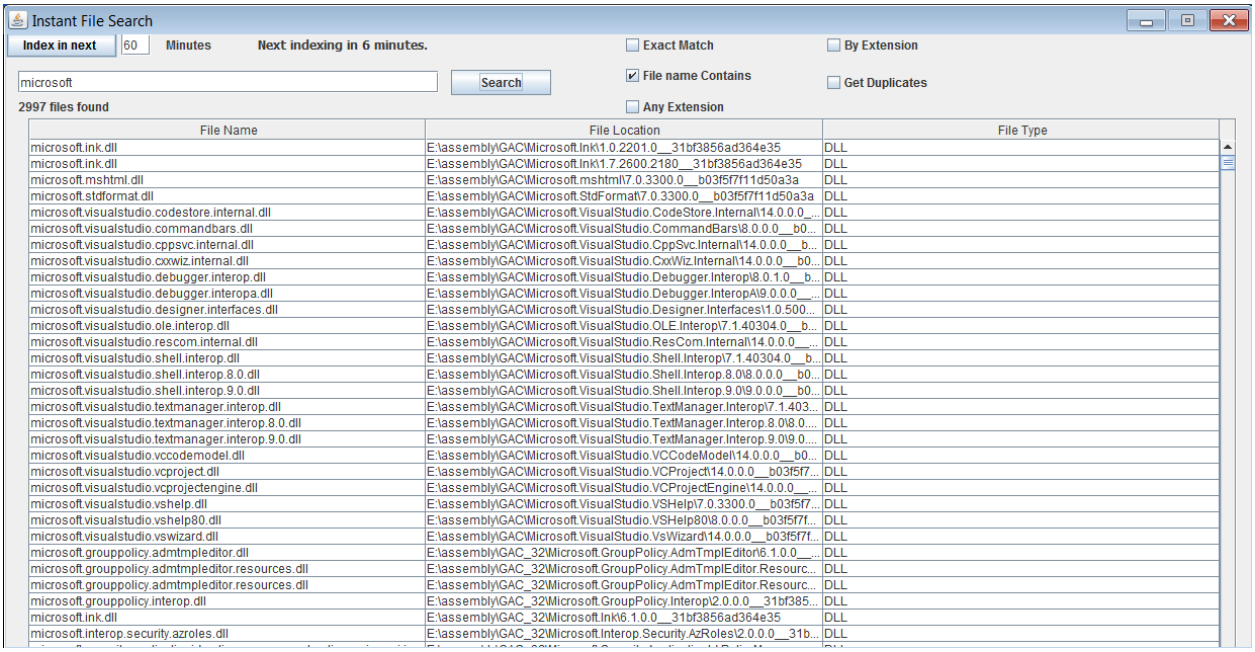
GUI Window on indexing file.



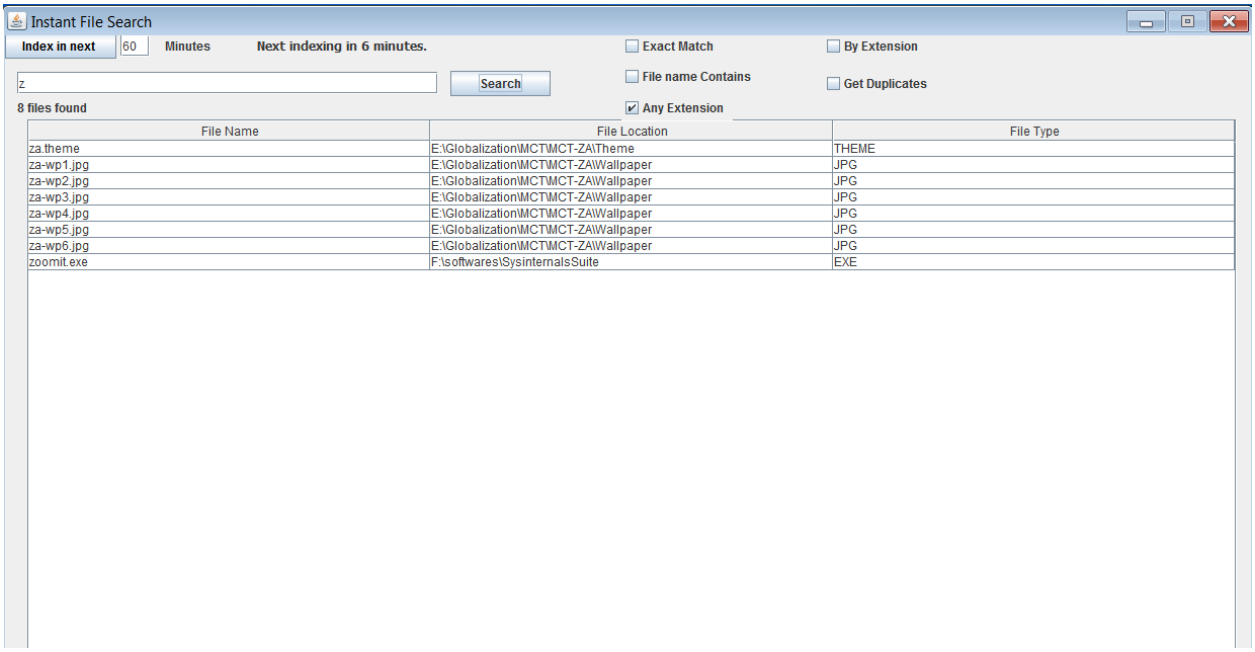
GUI Window after indexing files.



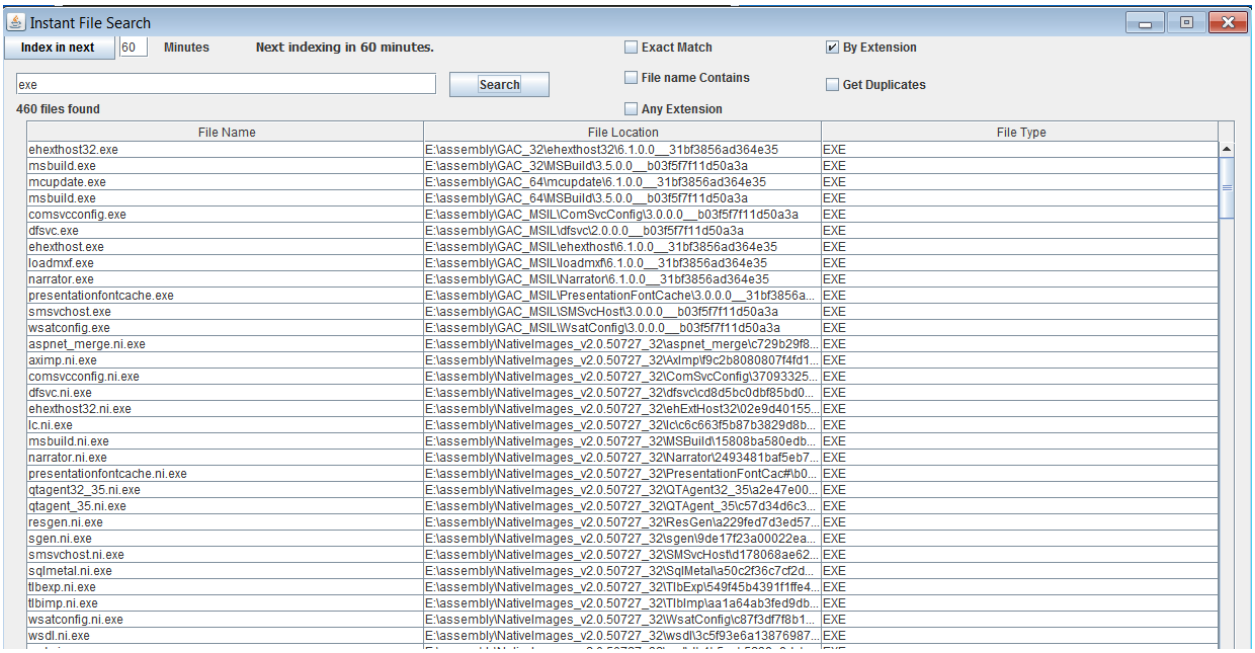
Querying with files with exact file match.



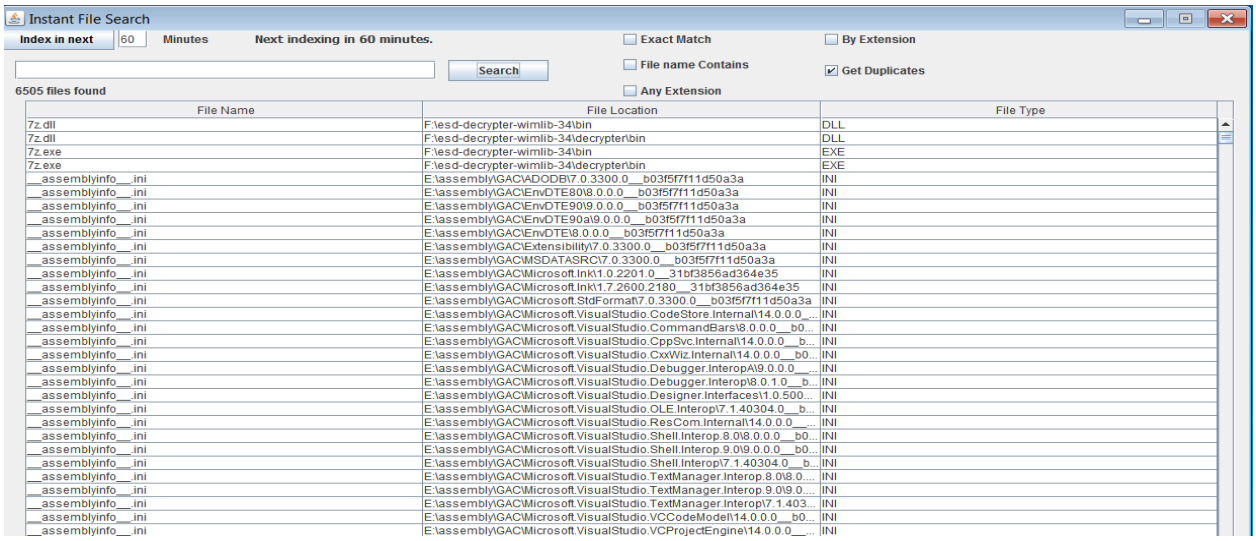
Querying with files which may contain specified query string.



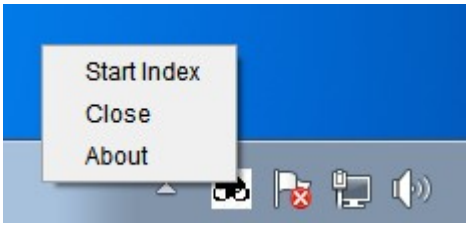
Querying by filename with extension



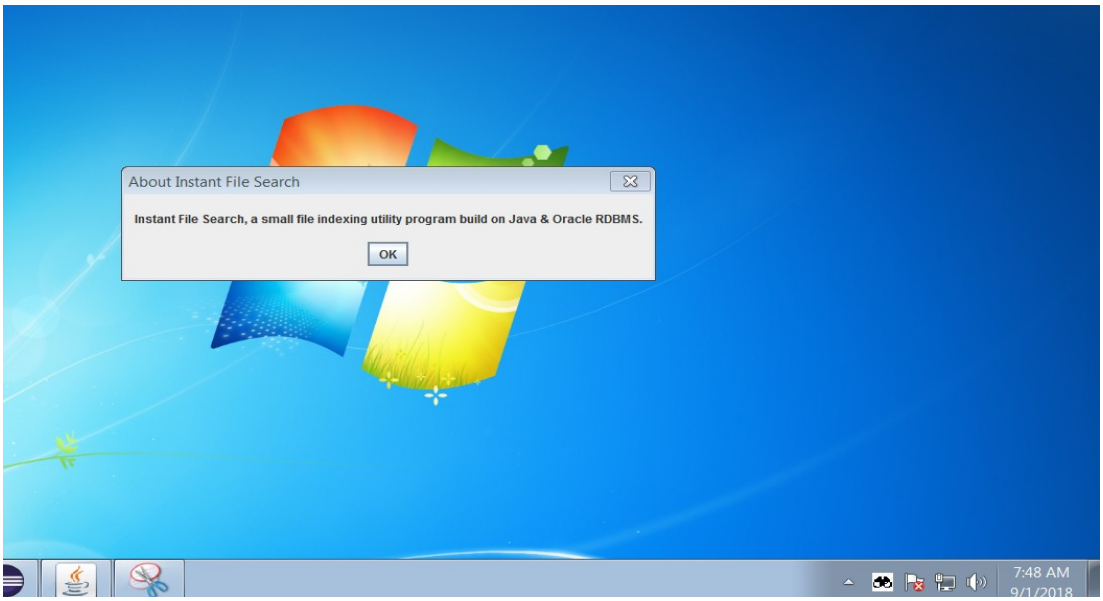
Querying by extension



Retrieving all duplicate files on system.



System Tray MenuItems



About Menu from System Tray

END