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| VA Informatics and Computing Infrastructure | UNCONTROLLED DOCUMENT |
| **Voogo – Phase 1.0 User Guide** | .01 |



Voogo – Phase 1.0

User Guide

**Revision History**

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# Introduction

This guide will introduce the user to the Voogo search tool and instruct them in searching VA medical data available through VINCI.

# About

Voogo is tool for searching VA medical data that is made available through the VA Informatics and Computing Infrastructure (VINCI) and the Corporate Data Warehouse (CDW). It provides search capability for unstructured text in the form of TIU documents as well as structured data, such as demographics, diagnoses, procedures, lab tests, etc.

# Pre-Requisites

A Java SE Runtime Environment (JRE) version 7 or above must be installed and the directory containing the javaw executable must be in the list of directories automatically searched for executable files (the PATH).

# Installation

Extract the zip file named “voogo-p1.0.zip” into a directory that you have permissions to write to. This will create a new directory named “voogo-p1.0” in that directory.

# Starting Voogo

To run Voogo, double-click the file “start-voogo” (or “start-voogo.bat”) in the “voogo-p1.0” directory. You will see a splash screen indicating that Voogo is starting (Figure 1).



Figure 1. Splash screen indicating that Voogo is starting.

Once Voogo has finished starting, you will see the main interface (Figure 2).

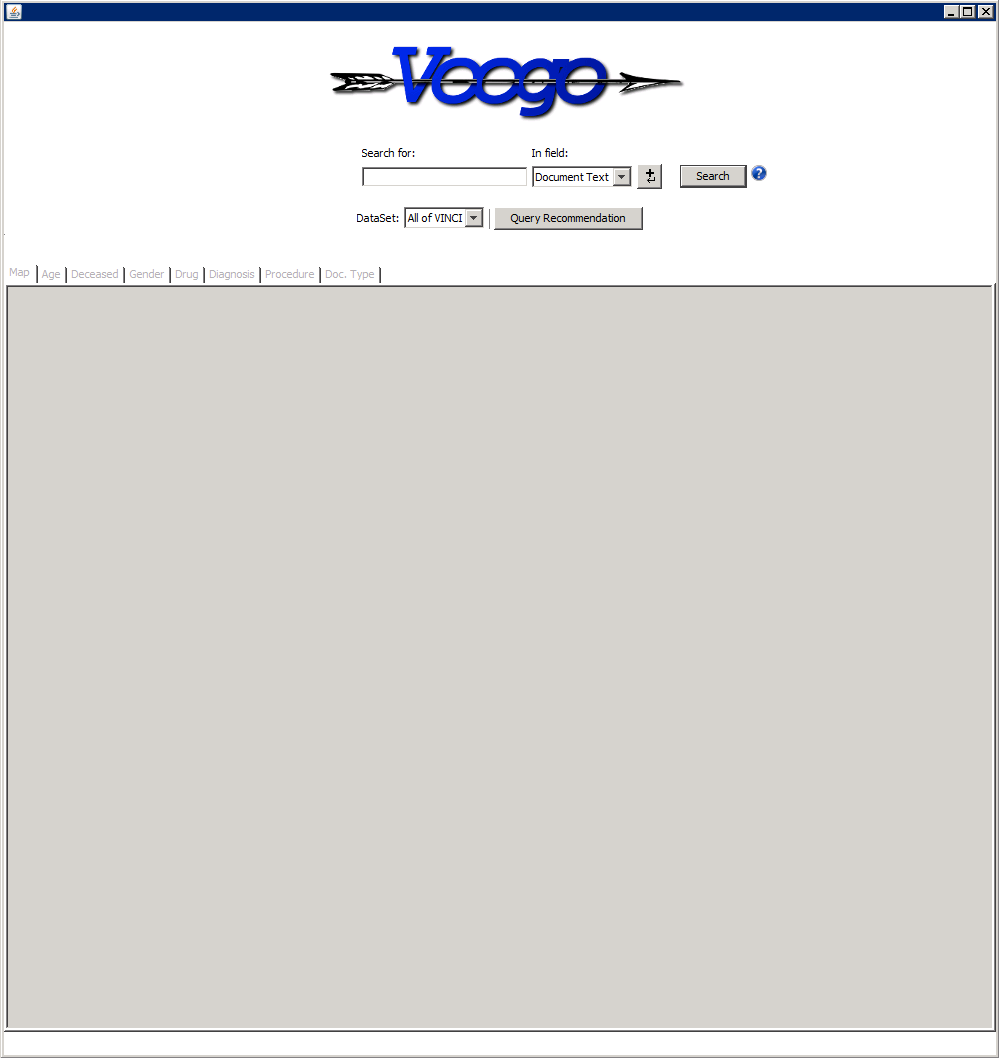


Figure 2. Main Voogo interface.

# Searching

To perform a search, enter a search term in the “Search for:” text field, and then select the field to search from the “In field:” drop down list. If you wish to search multiple fields, or multiple terms in the same field, then add a new search term row by clicking the  button. If you wish to remove a search term then click the  button on the row you wish to remove. When you have entered all of your search terms, click the Search button to perform the search.

The fields available for searching, along with their descriptions, are shown in

Table 1.

Table 1. Searchable fields.

|  |  |
| --- | --- |
| **Field** | **Description** |
| Document Text | Full text of TIU documents (clinical notes). |
| Document Type | Type of TIU document. |
| Age | Age of patient. |
| Gender | Gender of patient. (M or F) |
| County | County of the patients’ most recent residence. |
| State | State of the patients’ most recent residence. |
| VISN | Veterans Integrated Service Network (VISN) of the patients’ most recent residence. |
| ICD-9 | International Statistical Classification of Diseases version 9 codes for patient diagnoses. |
| Drug | Drug names of patient prescriptions. |
| CPT | Current Procedural Terminology codes for patient procedures. |
| Deceased | Deceased status of patient. (Y or N) |

General search rules and information can be found by clicking the  button. The rules governing how the search is performed are:

* All search criteria are case insensitive.
* Search criteria for fields other than Document Text may use the \* wildcard.
* All search criteria between different fields are combined using a logical AND. Example: searching for *diabetes* in field type *Document Text* and *250.\** in field type *ICD-9* will match all patients with at least one clinical document containing diabetes AND at least one diagnosis with an ICD-9 code starting with 250.
* Search criteria sharing the same field are combined using a logical OR. Example: searching for *diabetes* in field *Document Text* and *mellitus* also in field *Document Text* will match all patients with at least one clinical document containing either diabetes OR mellitus.
* If you with to use a logical AND for criteria of the same field, then combine them into a single criterion using the literal string AND. Example: searching for *diabetes AND mellitus* as a single criterion in field *Document Text* will match all patients with at least one clinical document that contains both diabetes and mellitus.

# Results

Search results include:

* The number of matching patients.
* The number of matching documents (if criteria for Document Text and/or Document Type were specified).
* A map showing the geographic distribution of matching patients. The locations are shown at the county level. Larger markers indicate a larger number of matching patients in the marked county.
* A histogram showing the age distribution of matching patients.
* A pie chart showing the deceased status distribution of matching patients.
* A pie chart showing the gender distribution of matching patients.
* A list of the 25 most frequently prescribed drugs for the matching patients.
* A list of the 25 most frequent diagnoses for the matching patients.
* A list of the 25 most frequent procedures for the matching patients.
* A list of the 25 most frequent document types matching the search criteria for the matching patients (if criteria for Document Text and/or Document Type were specified).

# Saving

The results may be saved as a report document in portable document format (PDF). After the search has finished, click the Save button, select the directory where you wish to save the report, and enter a file name for the report, then click Save.