

Online Slides Collection Search Engine

Presented to
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Submitted by
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Header Information

Project member:

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URL

<http://lincpc03.cacs.usl.edu/cgi-bin/aladdin/nwrslides/index.htm>

Source code:

E:\Inetpub\wwwroot\cgi-bin\Aladdin/nwrslides

Title:

Online Slides Collection search Engine

Introduction:

Objective:

The objective of the project is to allow the user to query or edit the information of the slides in MS Access database.

Previous Work:

This project is extension of the existing project done in CGI-Perl and Java Script. The main drawback of the old project is that some parts of the application are not compatible with Internet explorer and Netscape navigator browsers.

The source files of the project is at:

E:\InetPub\wwwroot\cgi-bin\aladdin\nwrslides

Improvement over the previous work:

Present project is free from all the incompatibilities of Netscape and Internet explorer browsers. The user is provided with the refined search facility from which user can select required words easily from the select box. The user is also provided with the combination search facility where he can search for different combinations of words. He can also search for multiple words.

The following is the database schema stored in the MS Access database.

TABLES LIST

Keyword

Keywordid	Keyword	Scopenote
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Location

Locationid	Location	Scopenote
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People

Peopleid	Name	Scopenote
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Photographer

Photographer Id	Last name	title	Agency	BranchId	Phone number	fax number	email
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Sciname

ScinameID	SciName	ScopeNote
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Set

SetID	SetName	Description	Event	CreateDate	PersonName
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Slides

SlideID	Keyword	Location	BranchID	SetID	Caption
---------	---------	----------	----------	-------	---------

People	WU-Project	Date
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OldID	FileName	Stored	Copyright	Photographer ID
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Permission	SciName	Carousel
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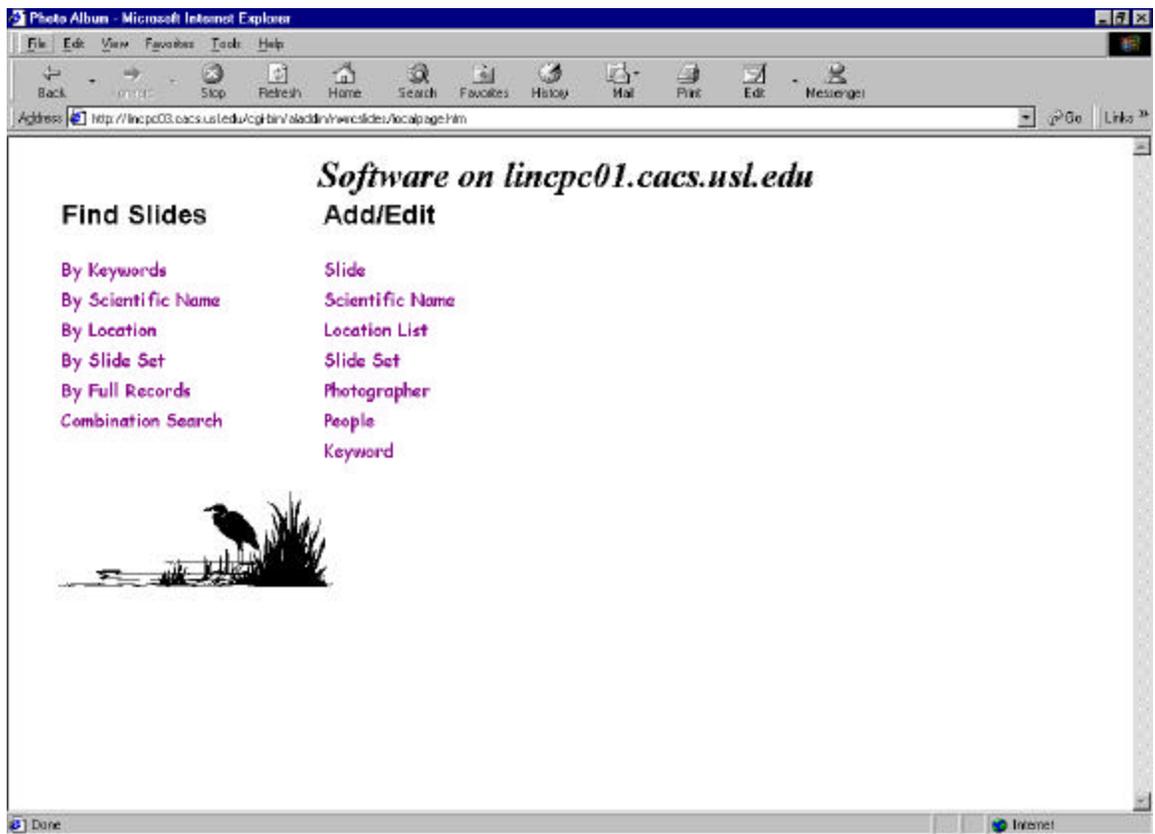
Method:

The tools and languages used were:

- Perl programming language
- ODBC Open database connectivity
- IIS Internet information server
- CGI Common Gateway interface
- HTML, hyper text mark up language
- JavaScript

The working of the project:

The following page shows the different options provided to the user.



The user is provided with the following options:

- 1) User can query database for the following required information.
 - a. Keyword Search
 - b. Slide Set Search
 - c. Location Search
 - d. Browse By Full Records
 - e. Combination Search

- 2) User can edit any values in the database. The following tables can be edited.
 - a. Slide
 - b. Scientific Name
 - c. Location
 - d. Slide Set
 - e. Photographer
 - f. People
 - g. Keyword

The user should have permissions to edit values in the database. He should enter the password to enter into the page where he can edit values.

On the first page of the web site user can select the type of search he wants to perform or he can enter the password if he wants to edit values. Each of the options will be discussed in the later part of the report.

Search Options

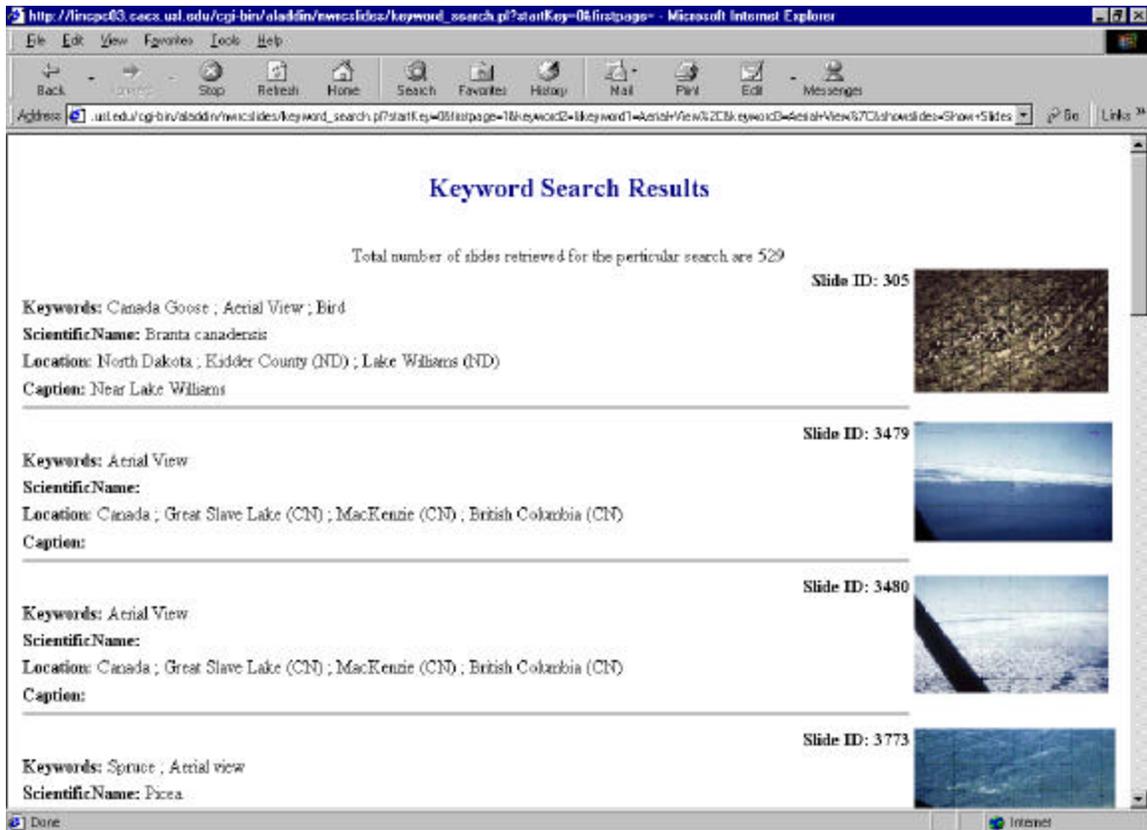
➤ *Keyword Search:*

In this search, the user can query for the slides for any particular keyword.

User can select from the list of keywords in the select box and can ask for the slides having the same keyword. The selected words are displayed in the text box above the select box. User can select as many words as possible for the search.



All the records, which satisfy the query, will be displayed in the next page. The values are submitted by clicking the Show Slides button and later all the slides having the keywords are displayed with slide image, keyword, location and caption information for each slide id. On each page 15 records information is displayed and others will be displayed in the next pages. To see those records user has to click Next button and to see previous images he has to click Previous button. If he wants to search again, he has to click Search Again button. User has to click Main Menu button if he wants to search with some other option. The total number of records selected is also displayed on the results page.



The screenshot shows a Microsoft Internet Explorer browser window displaying a web page titled "Keyword Search Results". The address bar shows the URL: http://imgcd3.sccc.utd.edu/cgi-bin/abdd/nwsc/slides/keyword_search.pl?statKey=0&firstpage=. The page content includes:

Keyword Search Results

Total number of slides retrieved for the particular search are 529

Keywords: Canada Goose ; Aerial View ; Bird ScientificName: Branta canadensis Location: North Dakota ; Edder County (ND) ; Lake Williams (ND) Caption: Near Lake Williams	Slide ID: 305 
Keywords: Aerial View ScientificName: Location: Canada ; Great Slave Lake (CN) ; MacKenzie (CN) ; British Columbia (CN) Caption:	Slide ID: 3479 
Keywords: Aerial View ScientificName: Location: Canada ; Great Slave Lake (CN) ; MacKenzie (CN) ; British Columbia (CN) Caption:	Slide ID: 3480 
Keywords: Spruce ; Aerial view ScientificName: Picea	Slide ID: 3773 

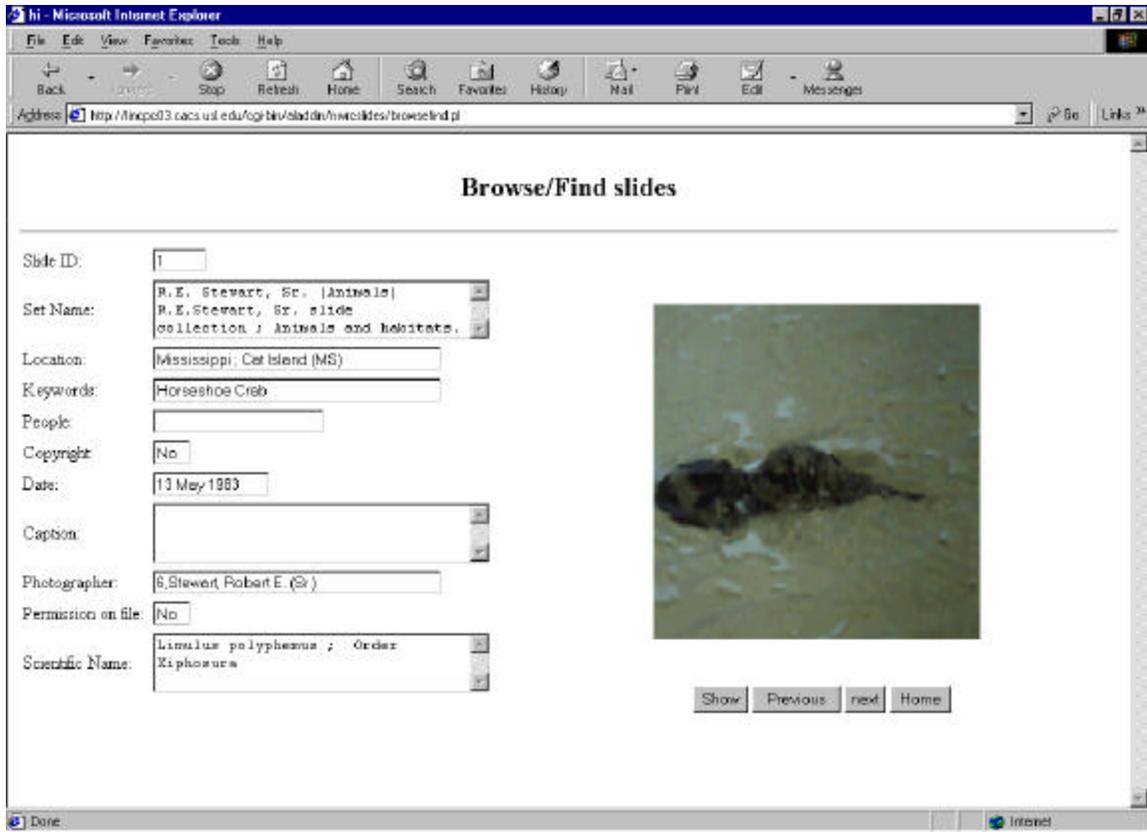
User is also provided with the facility of refined search where one can select keywords easily. User can go to refined search page by clicking Refined search button and can ask for keyword that start with particular alphabet or word itself. Required word is entered in the text box provided on the page and enter is pressed. All selected keywords are displayed in select box and user can select keyword easily as user has to select from fewer keywords. Selected word is displayed in the text box and values are submitted by clicking Show slides button. Results are displayed as explained above.

➤ *Scientific name, Location and Set searches:*

Scientific name and Location searches are performed in the same way as the keyword search. Slide set search also works same as the keyword search but Refined search capability is not there as the selection is done using the slide numbers.

➤ *Browse by all records:*

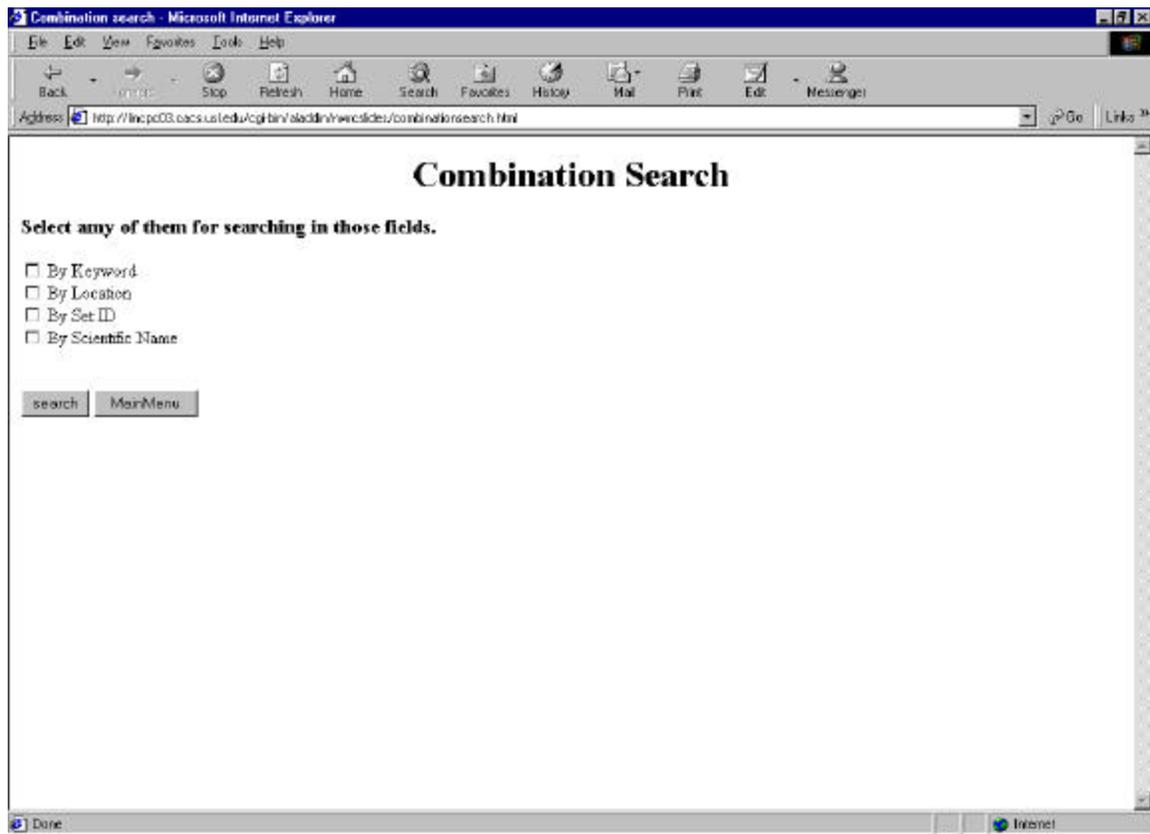
In this search, user has to enter Slide Id enter in the text box for which he wants to see the information and click Show button. The information of each Slide Id such as set name, location, keyword, people, copyright, date, caption, photographer, permission, scientific name are displayed along with the slide image. The resulting page will look as shown in the figure.



Next slide information can be found by clicking Next button and previous slide information by clicking Previous button. User can search for other options by clicking Home button.

➤ *Combination search:*

In this search, user can search for records with the particular keyword or location or set id or scientific name. User is given the option to choose any combination of them. The following is how the page looks like.



After checking the check boxes, user clicks Search button. In the next page all the selected option records will be displayed in the respective select boxes. User can select one or more words from each select box. User can use Refined search facility to make selection of the words easily. This works same like refined search in the keyword search. After entering words in the refined search text boxes, user has to click refined search button and on the next page all the records satisfying the query will be displayed.

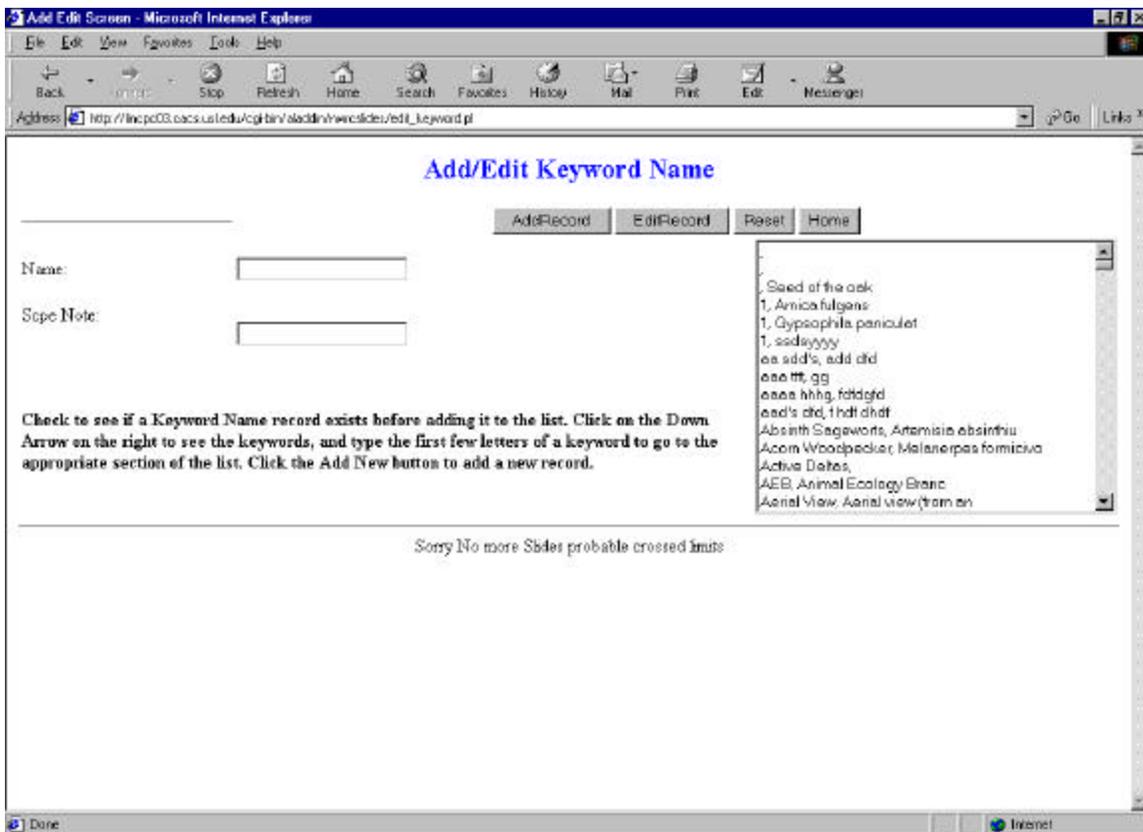
Later user can select any number of words he wants and ask for search by clicking the search button. All slide id's satisfying the query will be displayed along with the slide image, keyword, location, caption, scientific name in the next page. Page will look like result page in the Keyword search.

Edit Options:

To edit the records in the database, user has to know password and has to enter it in the text box provided on the first page. In the next page, user is given the option to select any one of the tables to edit the information.

- *Edit procedure for keyword, slide set, scientific name, location, people, photographer:*

After selecting one of the options, all the records in that table are displayed in the next page and has to select the record that has to be edited.



The selected record values are shown in the respective text boxes. User has to change required values in the text boxes and click Edit button. Changed values are entered into the database and respective values are edited in slides table simultaneously.

User can also add new record to the table. For adding a new record, user has to enter values in all the text boxes provided for each column and click Add button. New record will be added to the table.

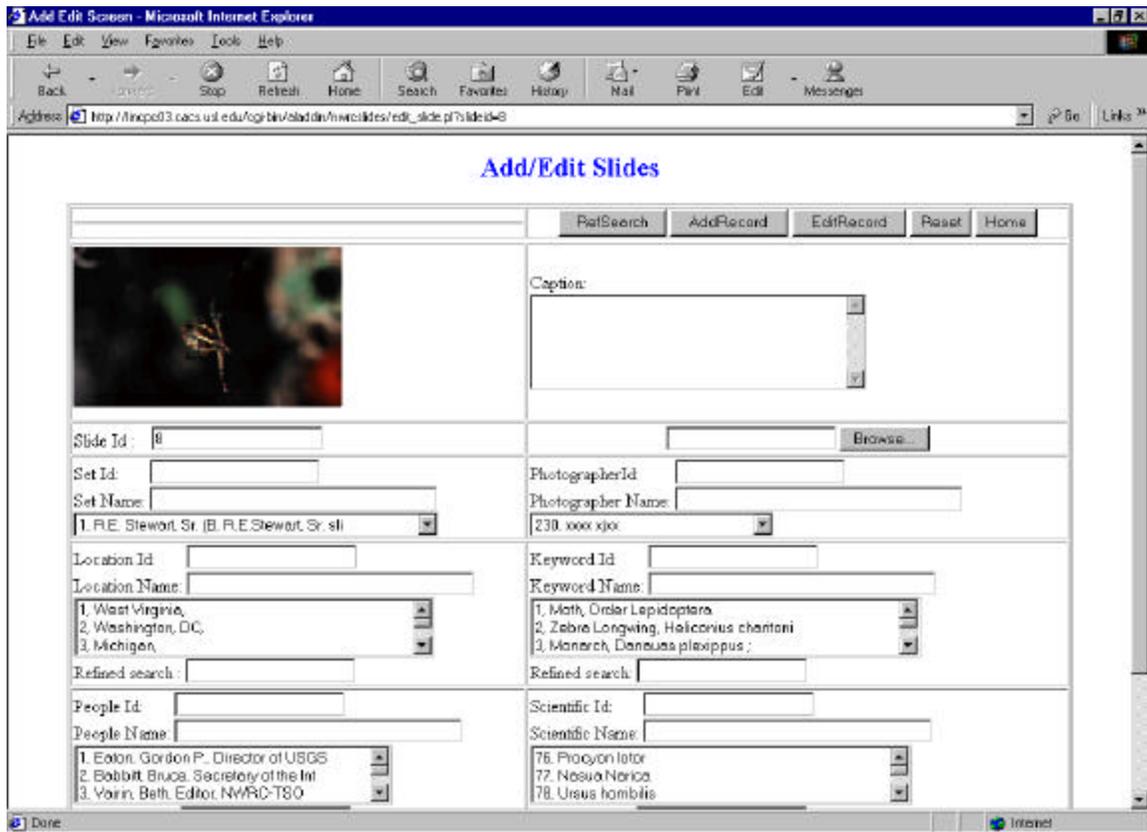
➤ *Edit procedure for records in slides table:*

Once slide option is selected, user is given choice to select either edit or add option.

For editing the records, user has to select Slide Image name from the select box. Once any image name is selected, page consisting of image and text boxes for different columns are displayed. User can enter values to be edited in text boxes and click Edit button. The changed values will be updated in the Slides table.

For adding records to the slide table, user can enter new image name in the text box provided and click enter. Page with Slide Image and the text boxes for the columns is displayed. User has to enter values in all the text boxes for that record and has to click Add button. New record will be added to the Slides table.

The resulting page for both the changes is as shown in the figure below.



Notes:

All slide images, which are present in database, were moved to the new file and saved there. All the images are accessed from that file in the project. This makes load on the database less.

Testing:

The project is tested with Netscape navigator and Internet explorer browsers and with different sets of values. It is working properly with all of them.

Future work and bugs: