
Link Razor Pro Design Draft

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Introduction

Link Razor is a Contact Management software for research on potential business partners using the Internet & the help of Search Engines.

Any reference to software, program or application is referring to LinkRazor.

User should be able to search the internet with keyword phrases for new contacts. In addition they should be able to search using a particular domain URL on a particular Search Engine (SE).

These Search Engines may include MSN, Google, AltaVista, AllTheWeb, Lycos, Hotbot and any other thoughtful ones.

Information should be listed in a grid. With the main ones being the Site Owners Contact details.

User should be able to send email to that contact or a group of selected contacts in the grid using SMTP mainly or the users default e-mail installed on their machine if it is properly configured. These email clients will include Eudora, Outlook Express, Outlook 2000+ and any other popular email clients.

System should be able to detect SMTP server automatically. If not possible, user should be able to enter it manually using information provided by their ISP.

System should include customizable Business Letter templates in text format which will be provided.

A complete history and follow-up system/database, possibly in a thread format similar to News Groups where threads of conversation can be followed from the main post. This allows the user to go over past contacts history.

Ability to Save/Load or Open selected results. Ability to Import/Export as CSV or text files.

A WHO IS functionality should be built into the software so that information can be looked up for suitable contacts.

A deeper drill down functionality should be built into the software so that when information is missing on the first pass it can be found on the second pass, especially so email addresses.

A Link Directory should be built and managed by the user through the software directory functionality.

The following are conditions for the Software. They must

be included.

A software registration module/form for user to provide their name & email address, then software sends them the valid registration key by email. Email provided must be the same as when the user downloaded the software.

Also you need calculations on SE Position, Google Page Rank, Alex Ratings etc.

About every quarter way through development I want to be able to start testing the code to make sure that all bugs are hammered out and that I can install it successfully on all the platforms listed below.

Minimum maintenance free period should be two months, pro-rated after the free period.

The software must be able to connect to my website and verify if there is any update and apply them. The update process must be able to update any part or the whole application, I mean, the executable, database or any dlls.

Create a setup project to install the application. If DotNet is not installed prompt the user for a download.

A DEMO version should be built.

The Software must be created using VB.NET 2003.

Additional Features:

Banner Advertising in the DEMO version.

Deliverables:

1) All deliverables will be considered "work made for hire" under U.S. Copyright law. Buyer will receive exclusive and complete copyrights to all work purchased. (No GPL, GNU, 3rd party components, etc.

unless all copyright ramifications are explained AND AGREED TO by the buyer on the site per the coder's Seller Legal Agreement).

Platform:

Windows and .Net Framework 1.1

It should be able to run on Windows '98 and above. That includes Win 2000, XP, Win 2003.

Main & Sub Screen Displays

Overview

This part of the document will show some of the main forms or screens involved in the software so the developer can have a perspective on the project.

Main Screen

This main screen is displayed when the application is first started. This is where most of the activities of the application takes place with menus and toolbars.

The Main Menu and Tool Bar items should be the same as LinkCapture. I will be describing them in my next release of this document.

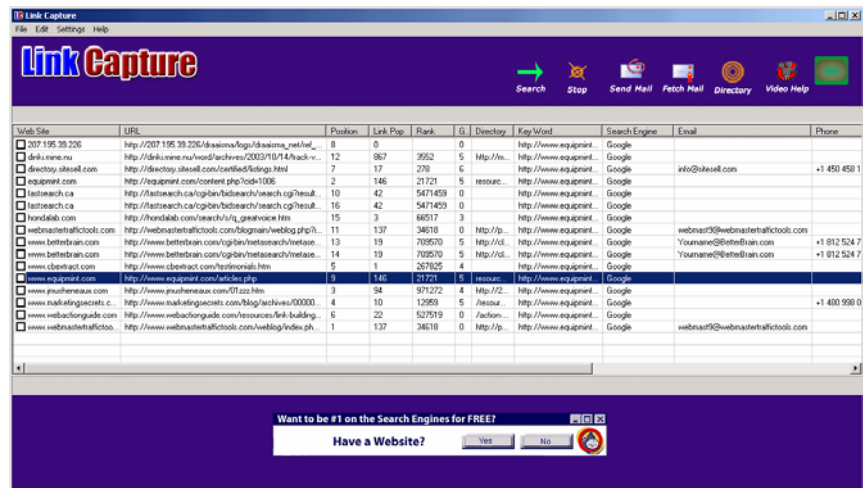


Fig 1.0

- The screen below shows part of the grid above a bit more clearly displaying the first few columns of a results page using the keyword option “baby”. The column fields are described below.

Web Site	URL	Positi...	Link Pop	Rank	G.	Directory	Key Word	Search Engi...	Email	F
<input type="checkbox"/> www.babycenter.com	http://www.babycenter.com/	1	8030	1319	7		baby	Google	support@babycenter.com	+
<input type="checkbox"/> www.baby-place.com	http://www.baby-place.com/	2	754	39065	6	linkrequ...	baby	Google	iiris@netaxs.com	9
<input type="checkbox"/> www.babynames.com	http://www.babynames.com/	3	889	13151	6		baby	Google	info@babynames.com	
<input type="checkbox"/> www.cdbaby.com	http://www.cdbaby.com/	4	9480	11114	8		baby	Google	changes@cdbaby.com	+
<input type="checkbox"/> www.babyzone.com	http://www.babyzone.com/	5	813	9544	6	frm1link...	baby	Google		
<input type="checkbox"/> www.americanbaby.com	http://www.americanbaby.com/	6	5180	14575	6	http://w...	baby	Google	feedback@americanbaby.com	+
<input type="checkbox"/> www.parentspace.com	http://www.parentspace.com/	7	12000	9284	8	https://...	baby	Google	boards@parentspace.com	+
<input type="checkbox"/> www.babyblues.com	http://www.babyblues.com/	9	136	535641	6		baby	Google	webmistress@babyblues.com	

Fig 1.0a

- User **Web Site** i.e. the web site found in the search engine e.g. www.microsoft.com
 - **URL**: related to the above web site column.
 - **Position**: calculated. Position in search engine.
 - **Link Popularity**: calculated
 - **Alexa Rank**: calculated. Information from Alexa or third party.
-
- **Google PageRank** calculated. Information from Google or third party.
 - **Link Directory** (if found i.e. if the web site has a link exchange directory). Please refer to LinkCapture software.
 - **Keyword** (refer to search box below in *Fig 5.0*. Could be Domain Name entered in the search box
 - **Search Engine**: e.g. Google
 - **Email**: if found using [WHOIS] – networksolutions.com or third party.
 - **Phone**: if found using [WHOIS] – networksolutions.com or third party.
 - **Fax**: if found using [WHOIS] – networksolutions.com or third party.
 - **Physical Address**: if found using [WHOIS] – networksolutions.com or third party.

Popup menu on main Grid

When the search results are displayed successfully a context popup menu is displayed when the user right clicks on the main grid shown in *Fig 1.0a* above. The popup menu is described below. Please note that when a link is to be displayed a new default browser window is opened. Obviously some of the popup functionality will be related to the selected row in the grid.

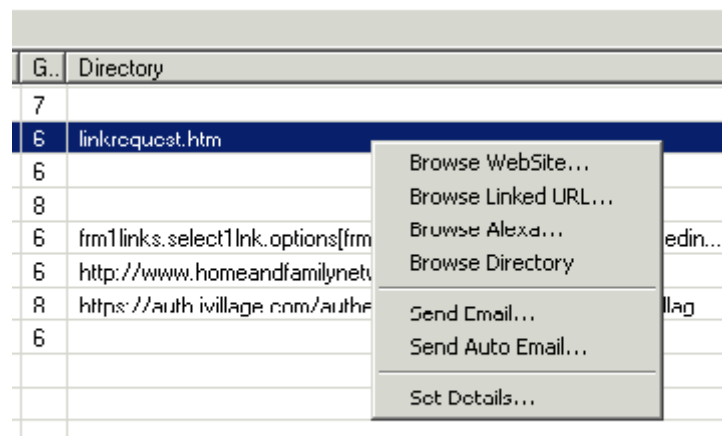


Fig 1.0b

- **Browse Website:** This takes you to the main web site e.g. www.microsoft.com which opens in a new browser.
- **Browse Linked URL:** This takes you directly to the URL related to the web site above e.g. <http://www.microsoft.com/linkrequest.htm>
- **Browse Alexa:** The main web site will be opened in a new browser window to display Alexa information about that web site.
- **Browse Directory:** please note that this item on the menu only appears if directory exist on the highlighted web site. in)

-
- **Send Email:** This Starts up the users default email like Eudora, Outlook Express, Outlook 2000+ and any other popular email clients. This assumes that the email client is properly installed on the users machine and should be pre-populated with the default template including tags fully filled with the details. One email at a time can be sent this way. The tags are described below.
 - **Send Auto Email:** This mainly involves the SMTP and Template functionality of this software. Please refer to *Fig 2.0a, Fig 2.0. &, Fig 2.0* below. These displays the templating Saving, Loading and Previewing feature **Important note:** Before you send an email you have to check that your SMTP server information is entered correctly in LinkRazor software, please refer to *Fig 2.0d*

-
- **Set Details:** When a row is highlighted and the set details menu item is pressed by the user, the details of the grid columns are displayed on a separate form for editing or updating. Please refer to the screen shown below:

The screenshot shows a dialog box titled "www.americanbaby.com details". It contains the following fields and controls:

- Web Site :
- First Name :
- Last Name :
- Contact Email :
- Phone :
- Fax :
- Address :
- Additional Info :

On the right side of the dialog, there is a button labeled "Get Who Is Info...". At the bottom, there are "OK" and "Cancel" buttons.

Fig 2.0

Email Settings

Email Sending

From:

From Addr:

Subject:

Message Text:

Use the Following Buttons to add personal info to your email:

Address Key Word

Alexa Rank Last Name

Data Link Pop

Directory Phone

Email Position

Fax Search Eng

First Name URL

Google Rank Web Site

Advanced Settings

Cancel Save Load Preview Clear OK

Fig 2.0a

www.link.capture.com. I took a tip to your site [SITE] and I was very impressed. I found that we are both targeting the same market, although we are not in competition. I wonder if you'd like to trade links. I've added your site to our link directory at: www.link.capture.com/link. You may find a link to your site by clicking the link below. [DATA]. Once you return the favor and link back to our site, You will get a special'. The 'Advanced Settings' button is still visible at the bottom right."/>

Email Settings

Email Sending

From:

From Addr:

Subject:

Message Text:

Hi [FNAME]

My name is Gordon Assaf and I'm the webmaster of www.link.capture.com.

I took a tip to your site [SITE] and I was very impressed.

I found that we are both targeting the same market, although we are not in competition.

I wonder if you'd like to trade links.

I've added your site to our link directory at: www.link.capture.com/link.

You may find a link to your site by clicking the link below. [DATA].

Once you return the favor and link back to our site, You will get a special

Advanced Settings

Cancel Save Load Preview Clear OK

Fig 2.0b

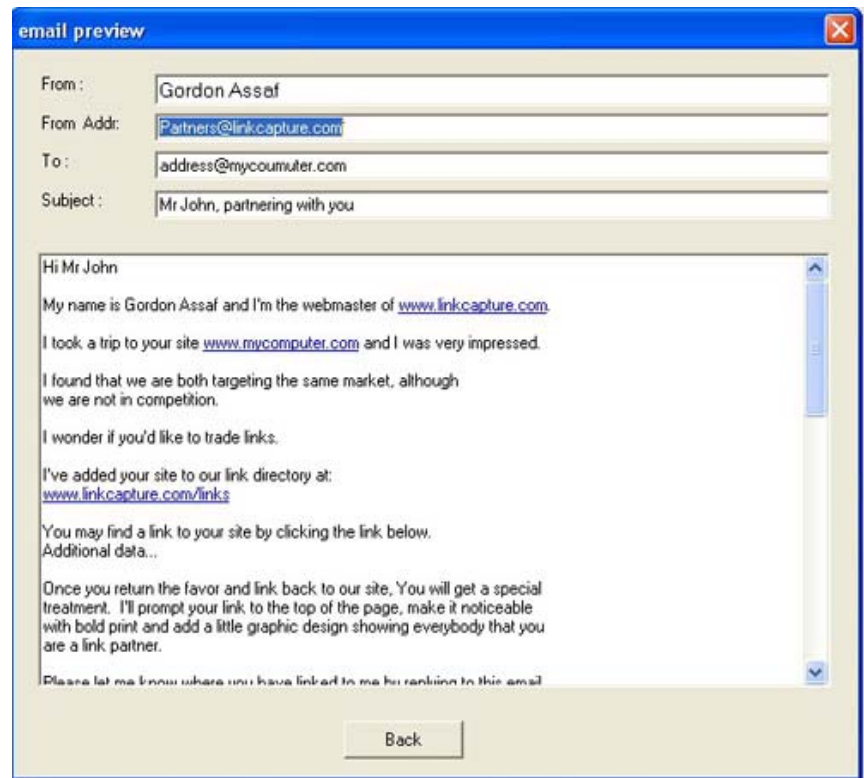


Fig 2.0c

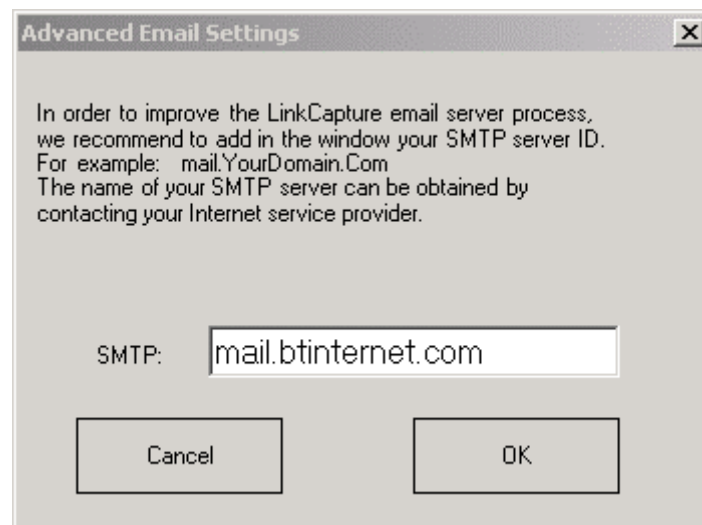


Fig 2.0d

Search Engine

Overview

User should be able to search the internet with keyword phrases for new contacts. In addition they should be able to search using a particular domain URL on a particular Search Engine (SE).

These Search Engines may include MSN, Google, AltaVista, AllTheWeb, Lycos, Hotbot and any other thoughtful ones.

Information should be listed in a grid. With the main ones being the Site Owners Contact details.

The application should have a screen similar to the search box below.

Search Box

Fig 5.0

- The Search Engine drop down box is described above. User chooses search engine they wish to conduct a search from
- Search for Domain option: User enters a domain name similar to the above to conduct a search.
- Search for Keyword option: User enters a keyword or phrase to be searched on
- Number of Results: The exact number of results that appear in the grid o the main form after a successful search is conducted.
- Cancel: When user presses cancel no search is conducted and they are taken to the main screen.
- OK: User presses the OO button and a search is conducted against the keyword or the domain name option.
- Numeric fields should be validated.

Contact Management

Overview

User should be able to send email to that contact or a group of selected contacts in the grid using SMTP mainly or the users default e-mail installed on their machine if it is properly configured. These email clients will include Eudora, Outlook Express, Outlook 2000+ and any other popular email clients.

System should be able to detect SMTP server automatically. If not possible, user should be able to enter it manually using information provided by their ISP.

System should include customizable Business Letter templates in text format which will be provided.

A complete history and follow-up system/database, possibly in a thread format similar to News Groups where threads of conversation can be followed from the main post. This allows the user to go over past contacts history.

Colour Coding when emails are sent to recipient. This will be displayed in the main grid dynamically to give a visual impact to the user.

Red - When recipient has been sent email for first time, so that the user do not end up accidentally sending again which avoids embarrassment. Of course user can send email to the recipient again for follow up reasons but it is just for a visual cue.

Green – to be described soon.

Blue – to be described soon.

Below are the tokens and/or tags for the business letter templates.

Tag/Token - Meaning - Sample Data

=====
[ADDRESS] - Physical address -90210 My computer ave. US
[ALEXAR] – Alexa Ranking – 42
[PERSONAL_COMMENT] – My Personal Comments - User's good comments about visited site stored against each site in search results.
[DATA] - Additional data...
[DIRECTORY] – Directory Link - <http://www.site.com/links.html>
[EMAIL] - Email Address - address@mycomputer.com
[FAX] - Fax Number - (999) 111 1111
[FNAME] - First Name - Mr John
[GOOGLER] – Google Page Rank - 4
[KEY] - "key word"
[LNAME] - Last Name- cohen
[LINKPOP] - Link Popularity - 42
[PHONE] - Telephone - (999) 222 2222

[POS] - Search engine Position - 42

[ENG] – Search Engine Used in search result - Google

[URL] -- <http://www.mycomputer.com/main/index.asp>

[SITE] -- www.mycomputer.com

Directory

Overview

A Link Directory should be built and managed by the user through the software directory functionality. Details of this to follow shortly.

Performance

Overview

The software should be able to return results reasonably quickly by means of multi-threaded functionality. By that we mean software should be able to handle more than one connection at a time so the users on modems with slow connection can benefit.

Currently the software demo is quite slow indeed. Developers should be able to implement the above feature through .NET threaded feature.

Maintenance

Overview

After the delivery of the software we will have a maintenance free period lasting two months after date of delivery. All existing bugs and addition of minor features that do not last for more than two days will be fixed.

Miscellaneous

Overview

These miscellaneous items will be expanded into the main document shortly or remain here. They include:

- Progress Bar to inform user of search progress. The current solution makes the user think the program has hang while it is processing.
- Contact Management Customization with history (explained above). Not Completed.
- **Colour Coded Status** on Grid (explained above)
- Results should be appended to the bottom of the previous results. Unless the user deleted the previous results.

- **Resize controls proportionally.** Only the grid to be resized accordingly. The others should be anchored in their current position. The top part of the screen (Menu, Toolbar) should be anchored.
- **Exclude List** same as LinkCapture (Not Completed)
- **Main Tool Bar** same as LinkCapture (Not Completed)
- **Menus** same as LinkCapture (Not Completed)
- **Demo version** (Not Completed)
- It counts eleven (11) instead of ten (10)
- Disable everything when program is processing.
- **Fetch Mail** same as LinkCapture (Not Completed)
- **Send Mail** same as LinkCapture (Not Completed)
- **To be able to Import** your own custom list into Exclude list as well as the Grid in CSV format same as LinkCapture (Not Completed)
- It is quite slow and a bandwidth hog - can it be threaded and make to run a bit faster?