

Author	Jason
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Document Revisions

Revisions on this document should be recorded in the table below:

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2	10 September 2001	First Edit	Josh
3	2 October 2001	Second Edit	Josh
4	3 October 2001	Added Views, ScreenShots, and Params	Josh
5	10 October 2001	Third Edit	Josh



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1 Introduction

1.1 Purpose of this document

The purpose of this document is to specify the functional and system specification of the Address Book application. This document provides a road-map through which the implementation of the application was developed and, where applicable, will also contain information detailing technical design constraints and assumptions.

1.2 Scope of this document

The scope of this specification covers the functional specifications of the Web Address Book application. This specification does not extend to third party or infrastructure components (such as web server installation and/or configuration).

1.3 Overview

The basic requirements for the Address Book application include:

- Ability to add, modify, and delete users' contact details.
- Ability to search for record(s) based upon search criteria.
- Ability to dedisplay data listing pages.

1.4 Business Context

Web Address Book is one of several eXtropia groupware application designed to allow multiple users within an organization to access contact information over an Intra or an Internet website. The generic version is open source for distribution.. Improvements to the base application will be made incrementally as bug reports come in and as suggestions are made. The generic Web Address Book will ultimately benefit both the company and our users.

2 General Description

2.1 Product Functions

The general functionality of the Address Book application is to allow users to access and manage user contact information online.

2.2 General Constraints

The application is distributed as a publicly accessible database of contact details. No login is required for viewing information. However, a login is required to modify ordelete information orto add new records.



The application is written in Perl and configured using the standard general distribution specifications

Bold Params indicate Section Headings. Italic Params are objects. Indented Params are configurable variables.

Grayed out or missing items are not required or not available in the default configuration.

Param	Default configuration	Notes
Language	Perl	
Session Setup		
Туре	File	Note that flatfile data sources are slow. We recommend upgrading to a database based data source
Max Modify Time	1 hour	
Fatal Timeout	Off	
Fatal if session not	Off	
found		
Session Manager Setup		
Туре	FormVar	
Cgi Object	\$CGI	
Session Params	Session Config Params	
Authentication Setup	-	For the datasource
Туре	File	
Field Delimeter	I (pipe)	
Create a file if none exists	On	
Field Names	From Auth User Datasource	
File	Scriptname.users.dat	Path is set at start of script
Default Authentication Fields	Username, password, groups, firstname, lastname, email	
Authentication Manager Setup		How requests are processed
Color for even rows	E5E5E5	
Color for Odd Rows	FFFFF	
CSS View URL	\$CSS_VIEW_URL	
Application Logo	logo.gif	
Application Logo Height	40	
Application Logo Width	353	
Application Logo ALT	WebDB Demo	
HTTP Header Params	[-EXPIRES => '-1d']	
Document Root URL	'/' or web root directory	
Image Root URL	/Images/Extropia	
Script Display Name	'Address Book'	
Script Name	\$CGI->script_name()	
Page Top View	PageTopView	
Page Bottom View	PageBottomView	
Link Target	'_self' or current window	
User_Fields	Auth_username, auth_password, auth_groups, auth_firstname, auth_lastname, auth_email	
Mail Params	·	



User Mail Send Params			<u> </u>
From you@yourdomain.com Subject Password Generated Admin Mail Send Params From you@yourdomain.com To you@yourdomain.com Subject Registration Notification Auth Manager Config Params Type CGI Allow Registration On Allow User Search On Allow User Search On Generate Password Off Default Groups Email Registration Off Admin Display Registration On After Failure On Add Form DHM Config Type CGI CGI Object \$CGI Data Handlers Email, Exists, HTML, String Field Mappings Fname, Iname, email, category, phone, comments Field Names category, record id, fname, Iname, phone, email, comments Address1, address2, city, state, zip, country, fax, mobile, uf, company_name, title, department, username_of_poster, group_of_poster, date_time_posted, Sample Default Widget Definitions Display Name Country Type Textfield, textarea Name Fname Internal Field name Size 30 Display size in charac Maxlength 80 Maximum number of characters permitted Rows 6 Initial height of textar Wrap VIRTUAL Basic Datasource Config Params Type File File \$APP_DATAFILES_DIRECTORY/\$APP_NAME, dat Field Delimitter [pipe)		Sendmail	Default on most systems
Subject Admin Mail Send Params From you@yourdomain.com To you@yourdomain.com Subject Registration Notification Auth Manager Config Params Type CGI Data Handlers Setup Data Handlers Etup Add Form DHM Config Type CGI Data Handlers Email, Exists, HTML, String Field Mappings Field Names Category, record_id, finame, Iname, phone, email, comments, address1, address2, city, state, zip, country, fax, mobile, url, company_name, title, department, userame_of_poster, group_of_poster, date_time_posted, Sample Default Widget Definitions Display Name Country Type Textfield, textarea Mame Finame Size 30 Maxlength Rows 6 Maximum number of characters and field name Size 30 Maxlength Rows 6 Maximum number of characters promise			
Admin Mail Send Params From you@yourdomain.com To you@yourdomain.com Registration Notification Auth Manager Config Params Type CGI Allow Registration On Allow User Search On Allow anyone to check an old account.			
From you@yourdomain.com To you@yourdomain.com Subject Registration Notification Auth Manager Config Params Type CGI Allow Registration On Allow User Search On Generate Password Off Default Groups Normal Email Registration to Admin Display Registration to Admin Display Registration On After Failure Data Handler Setup Add Form DHM Config Type CGI CGI Object \$CGI Data Handlers Email, Exists, HTML, String Field Mappings Fname, Iname, email, category, phone, comments Datasource Setup Field Names category, record_id, fname, Iname, phone, email, comments, address1, address2, city, state, zip, country, fax, mobile, url, company_name, title, department, usemame of, poster, group_of_poster, date_time_posted, Sample Default Widget Definitions Type Textified, textarea Type Textified, textarea Mame Fname Size 30 Display size in charac Maxlength 80 Maximum number of characters permitted Rows 6 Initial height of textar Wrap VIRTUAL Wrapping of text in textarea Type File SAPP_DATAFILES_DIRECTORY/\$APP_NAME, dat Filed Delimiter [pipe)		Password Generated	
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Size 30 Display size in characters permitted Maximum number of characters permitted Rows 6 Initial height of textare Cols 30 Initial width of textare Wrap VIRTUAL Wrapping of text in textarea Basic Datasource Config Params Type File \$APP_DATAFILES_DIRECTORY/\$APP_NAME. dat Field Delimiter (pipe)			
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Params Type File File \$APP_DATAFILES_DIRECTORY/\$APP_NAME. dat Field Delimiter (pipe)	Wrap	VIRTUAL	textarea
File \$APP_DATAFILES_DIRECTORY/\$APP_NAME. dat Field Delimiter (pipe)	_		Configure datasource
File \$APP_DATAFILES_DIRECTORY/\$APP_NAME. dat Field Delimiter (pipe)			
Field Delimiter (pipe)			
	Field Delimiter		
			Ignore lines starting with

Create File if None Exists	On	
Field Names	\@DATASOURCE FIELD NAMES	
Key Fields	['record_id']	Not required if key is not used
Field Types	Record_id => 'Autoincrement'	Specify a specific kind of field
Mailer Setup		Required for regular email. Not the same as Auth Mailer
Mail Config Params		
Туре	Sendmail	
Delete Event Mail Send		Warns Someone of Deletions to the database
From	you@yourdomain.com	
То	you@yourdomain.com	
Reply To	you@yourdomain.com	
Subject	Address Book Delete	
Add Event Mail Send		Tells user of additions
From	you@yourdomain.com	
То	you@yourdomain.com	
Reply To	you@yourdomain.com	
Subject	Address Book Addition	
Modify Event Mail Send		Tells user of modifications to records
From	you@yourdomain.com	
То	you@yourdomain.com	
Reply To	you@yourdomain.com	
Subject	Address Book Modification	
Logging Setup		
Туре	File	
Log File	\$APP_DATAFILES_DIRECTORY/\$APP_NAME.	
Log Entry Suffix	' 'generateEnvVarsString() . ' ',	
Log Entry Prefix	'AddressBook'	
View Setup		Views to use, display, and defaults
Valid Views	CSSView, AddRecordView, BasicDataView, DetailsRecordView, AddAcknowledgementView, AddRecordConfirmationView, DeleteRecordConfirmationView, DeleteAcknowledgementView, ModifyAcknowledgementView, ModifyRecordConfirmationView, ModifyRecordView, PowerSearchFormView, SessionTimeoutErrorView, LogoffView, OptionsView,	The program cannot display views that are not available here.
View Display Params		Defaults for Views
Application Logo	logo.gif	
Application Logo	40	
Height		
Application Logo Width	353	
Application Logo ALT	WebDB Demo	
Color for Even Rows	E5E5E5	

		<u> </u>
Color for Odd Rows	FFFFF	
Display Fields	category, fname, Iname, phone, email,	
	comments, address1, address2, city, state, zip,	
	country, company_name, title, department, fax,	
	mobile, url,	
Table BG Color 1	6699CC	
Table BG Color 2	E5E5E5	
Table BG Font Color1	BLACK	
Table BG Font Color2	BLACK	
Filter Setup		
HTMLIZE Filter		
Туре	HTMLize	
Convert Double	On	
Linebreak to P		
Convert Linebreak to	On	
BR		
Charset Filter		
Type	CharSet	
Embed Filter		
Type	Embed	
Enable	Off	
Action/Workflow Setup		
Action Handler List	Defaults	User should not need to modify
Action Handler Action Params		·
Action Handler List	\@ACTION_HANDLER_LIST	
Add Acknowledgment	AddAcknowledgementView	
View Name	-	
Add Email Body View	AddEventEmailView	
Add Form View Name	AddRecordView	
Allow Additions Flag	On	
Allow Deletions Flag	On	
Allow Duplicate Entries	Off	
Allow Username Fields	On	
to be Searched		
Allow Modifications	On	
Flag		
Application Sub Menu View Name	ApplicationSubMenuView	
Options Form View Name	OptionsView	
Auth Manager Config Params	\@AUTH_MANAGER_CONFIG_PARAMS	
Add Record	AddRecordConfirmationView	
Confirmation View	AdditecoldCollilliationview	
Name		
Basic Data View Name	BasicDataView	
CGI Object	\$CGI	
CSS View URL	\$CSS_VIEW_URL	For speed, change CSS URL to a location outside the CGI directory.
CSS View Name	CSSView	
Datasource Config	\@DATASOURCE_CONFIG_PARAMS	
Params		



	Delete Acknowledgment View	DeleteAcknowledgementView	
	Delete Record Confirm	DeleteRecordConfirmationView	
	View		
	Records Per Page	[5, 10, 25, 50, 100]	Remove or change
	Options		numbers as desired. This
			appears under Options.
	Max Records Per	\$CGI->param('records_per_page') 5	
	Page		
	Sort Field 1	\$CGI->param('sort_field1') 'category'	Sort by which field?
	Sort Field 2	\$CGI->param('sort_field2') 'fname'	Sort by which field?
	Sort Direction	\$CGI->param('sort_direction') 'ASC'	ASC=Ascending,
			DSC=Descending
	Delete Form View	BasicDataView	
	Name		
	Delete Email Body	DeleteEventEmailView	
	View		
	Details View Name	DetailsRecordView	
	Data Handler Manager	\@DATA_HANDLER_MANAGER_CONFIG_PAR	
	Config Param	AMS	
	Display	On	
	Acknowledgement On		
	Add		
	Display	On	
	Acknowledgement On		
	Delete		
	Display	On	
	Acknowledgement On		
	Modify		
	Display Confirmation	On	
	On Add		
	Display Confirmation	On	
	On Delete		
	Display Confirmation	On	
	On Modify		
	Enable Sorting	On	
	Hidden Admin Fields	HiddenAdminFieldsView	
	View		
	Input Widget	\@INPUT_WIDGET_DEFINITIONS	
L	Definitions		
	Key Field	record_id	
	Logoff View	LogoffView	
	URL Encoded Admin	URLEncodedAdminFieldsView	
	Fields View		
	Log Config Params	ModifyAcknowledgementView	
	Modify	ModifyRecordConfirmationView	
	Acknowledgment View		
	Mail Config Params	\@MAIL_CONFIG_PARAMS	
	Modify Form View	ModifyRecordView	
	Modify Email Body	ModifyEventEmailView	
	View		
	Power Search View	PowerSearchFormView	
	Require Auth to	Off	Is authorization required
1	Search		for the action?



Require Auth for Add	On	Is authorization required
		for the action?
Require Auth for	On	Is authorization required
Modify		for the action?
Require Auth for	On	Is authorization required
Delete		for the action?
Require Auth for	Off	Is authorization required
Details		for the action?
Require Matching	Off	Is a matching group or
Username for Modify		username required for
		the action on that record?
Require Matching	Off	Is a matching group or
Group for Modify		username required for
		the action on that record?
Require Matching	Off	Is a matching group or
Username for Delete		username required for
		the action on that record?
Require Matching	Off	Is a matching group or
Group for Delete		username required for
		the action on that record?
Require Matching	Off	Is a matching group or
Username for Search		username required for
		the action on that record?
Require Matching	Off	Is a matching group or
Group for Search		username required for
		the action on that record?
Send Email on Delete	Off	
Send Email on Modify	Off	
Send Email on Add	Off	
Session Object	\$SESSION	
Session Timeout View	SessionTimeoutErrorView	
Templates Cache	\$TEMPLATES_CACHE_DIRECTORY	
Directory		
Valid Views	\@VALID_VIEWS	
View Display Params	\@VIEW_DISPLAY_PARAMS	
View Filters Config	\@VIEW_FILTERS_CONFIG_PARAMS	
Params		
View Loader	\$VIEW_LOADER	
Simple Search String	\$CGI->param('simple_search_string') ""	
First Record on Page	\$CGI->param('first_record_to_display') 0	
Last Record on Page	\$CGI->param('first_record_to_display') "0"	
Page Top View	PageTopView	
Page Bottom View	PageBottomView	
Action Handler Plugins	\%ACTION_HANDLER_PLUGINS,	



3 Functional Requirements

3.1 Web Address Book Application

3.1.1 Description

The following definitions only cover the Default settings and views.

Authentication Definition Views

The application will allow any user read-only rights to view the address records registered in the application. Only registered users however, may add, modify, and delete records. There is no capacity for multiple group definitions, thus the default group is "Normal" and cannot be changed.

Default Settings Permit:

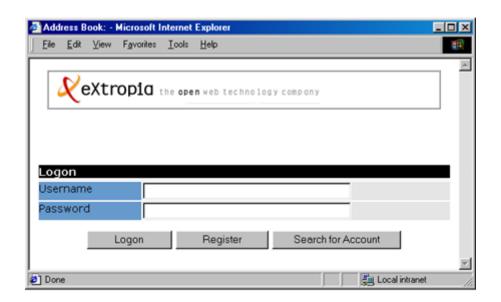
- · Any user may view the database
- Any user may search the database
- Registered users may add, modify, and delete records
- Registration is available to anyone

Registration of normal users is simply done by pressing "Logon" and following the Registration Views. User data is written to the datasource. In the default installation, it is written to Datafiles/AddressBook/address_book.users.dat. It is recommended that administrators do not alter the contents, especially the encrypted passwords. The information is listed as:

username|password|group name|fname|lname|email

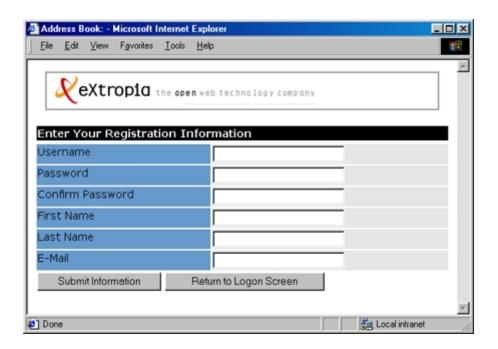
Registration of Administrative users may be done at a later date. System administrators will be able to alter hard data in databases or flatfiles as needed.

 Logon View requests the Username and Password of registered users. Users may attempt to logon, Register, or Search for Account. Also the view for failed logins.

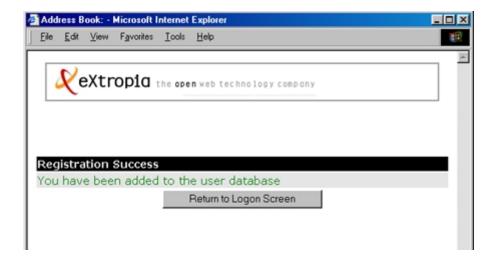




Register View permits any user to enter Username, Password, Confirm, Password, First Name, Last Name, and E-Mail. The user may then Register or Return to Logon Screen.

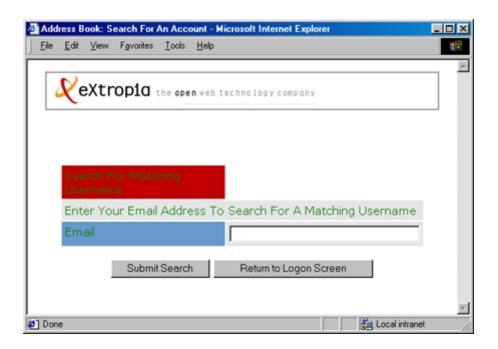


- Register Confirmation View confirms registration and returns the user to the Logon View.

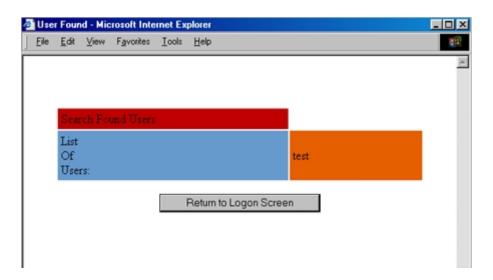




Search for Account requests an email address to match users and then sends the password to the user.

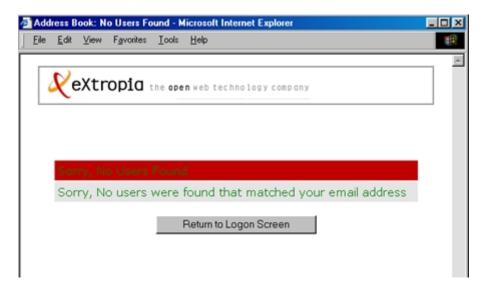


- Search for Account Users Found displays the username that matches the email address given.

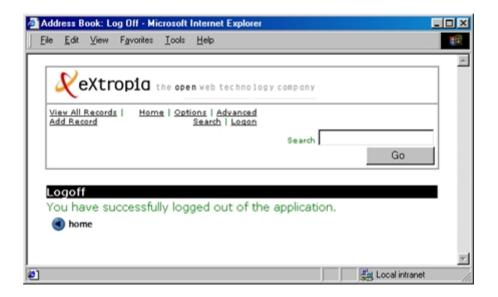




- Search for Users No Results appears when no email address is associated with a username.



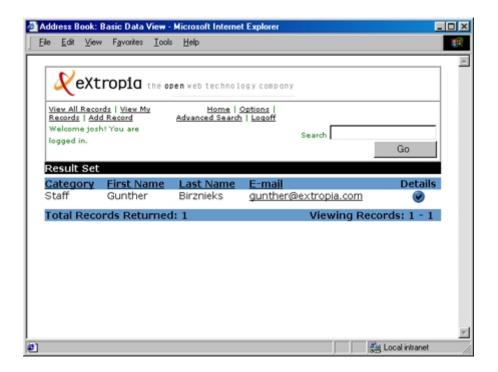
- **Logoff View** logs the user out and confirms the logoff. The session is terminated.





Application Specific View Definitions

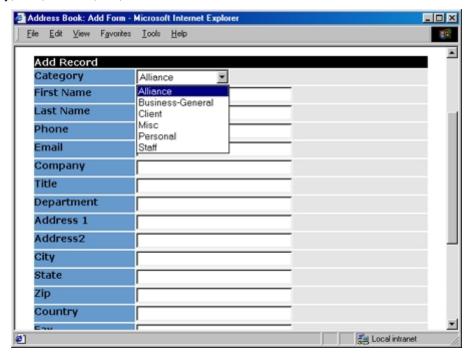
- Home View displays the first 25 records upon first access. Options include the standard masthead: View All Records, View My Records, Add Records, Home, Options, Advanced Search, Logon/Logoff. A Simple Search Box is also available. Records appear by Category, First Name, Last Name, and Email. An unregistered user may click Details.



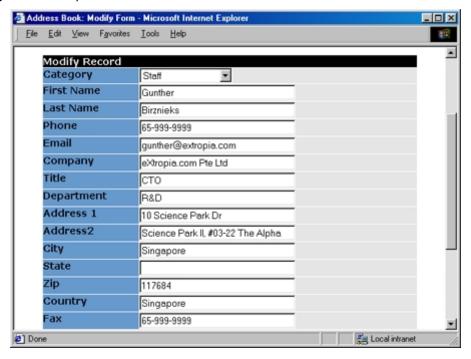
- View All Records will show all the information in the database ranked by First Name of the record in the address list.
- **View My Records** allows a registered user to search within the subset of all records that were added by that user.



- Add Record requires login authentication to Add Records. Fields include: Category, First Name, Last Name, Phone, Email, Company, Title, Department, Address 1, Address 2, City, State, Zip, Country, Fax, Mobile, Url, Comments.

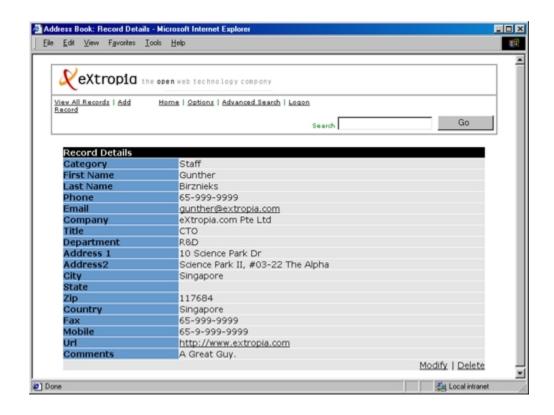


- **Delete Record** requires authentication. It will ask the user to confirm.
- Modify Record requires authentication. It contains the same fields as Add Record.





Details View displays the entire contents of a record. This view permits Modify and Delete with authentication.

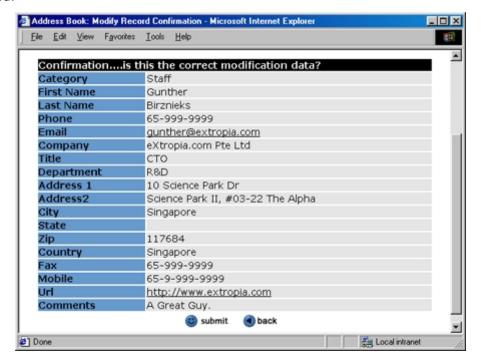




- Acknowledgment View is displayed whenever someone successfully Adds, Modifies, or Deletes a Record. A link to the Home View is available.



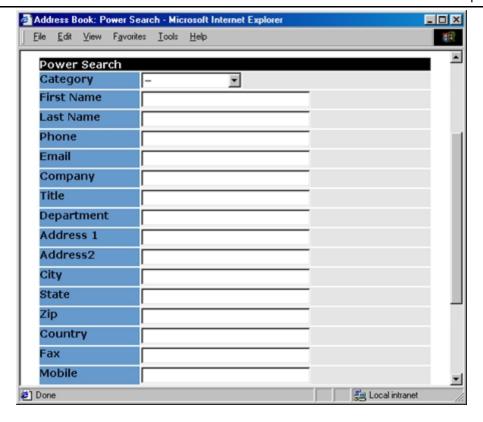
 Confirmation View is displayed whenever someone attempts to Add, Modify, or Delete a Record.



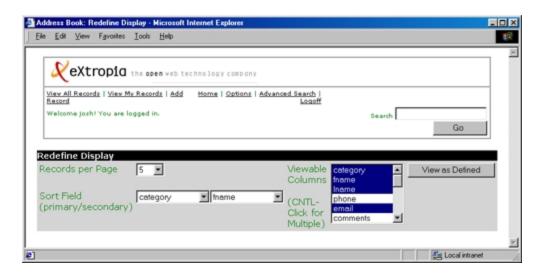
Common Features Definitions

- Basic Search permits any user to search the database based upon keywords. Available in the header.
- Advanced Search permits any user to search the database for any or all of the available fields





- Options View permits the authenticated user to alter Records Displayed per Page, Two Sort Fields, and which Columns to View. Upon pressing View as Defined, the user will see the records as desired. The Viewable Columns will vary according to Application.



3.1.2 Risks and Dependencies



4 Database Design

4.1 Description

The data of the application will be stored in a flat file. Each data fields of a record will be separated by \(\frac{1}{2} \).

Field Name	Description
category	Category of the record
record_id	Record value
fname	First Name
Iname	Last Name
phone	Contact number
email	Email address of record
comments	Comments for record
address1	First line of address of record
address2	Second line of address record
city	City of record
state	State of residence of record
zip	Zip of residence of record
country	Country of residence of record
fax	Fax number of record
mobile	Mobile number of record
url	Website address of record
company_name	Name of Company of record
title	Title of Job of record
department	Department of record is working in.
username_of_poster	Userid of login user who posted this record
date_time_posted	Date and Time posted of record

4.2 Communications Interfaces

5 Other non-functional attributes

5.1 Reliability

Highly reliable in a properly secured environment.

5.2 Maintainability

Requires little maintenance. Owners will want to clear out a large flat-file now and then as well as ensure their installation is secure from hackers. Users of relational databases will probably not need to clear out their database.

A modular architecture provides easy maintenance and upgrades.

5.3 Portability

5.4 Extensibility

Information entered via Web Address Book is portable to any relational database. The program can easily be switched to a new database with just a few lines of code. The program relieson the eXtropia ADT that divorces form and function.

5.5 Reusability

Web Address Book is highly reusable. The application can be modified for just about anything!

5.6 Serviceability