

ADT: Tell-a-Friend Version 1.0

Requirements Specification

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Document Revisions

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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 Tell-a-Friend application. This document provides a road-map through which the implementation of the application will be 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 Tell-a-Friend application. This specification does not extend to third party or infrastructure components (such as a web server installation and/or configuration).

1.3 Overview

The basic requirements summary build-in for the Tell-a-Friend application:

- To be able to allow users to email a friend and tell him about a cool website.

1.4 Business Context

Tell-a-Friend is an application designed for multiple users over a wide area. The generic version is open source for distribution. Anyone may take advantage of the powerful eXtropa Perl ADT. Improvements will be made incrementally as bug reports come in and suggestions are made. The generic Tell-a-Friend will ultimately benefit both the company and our users.

2 General Description

2.1 Product Functions

The general functionality of the Tell-a-Friend application is to allow users to send an email to a friend informing him of a cool website. The application generates a dynamic page depending on the entered information and the setup preferences.

2.2 General Constraints

Only one user can be emailed at one time so that spamming is prevented. The application will be written in Perl and the data files are stored in a common flat file system (ASCII File). This will slow down in terms of searching for information if there is a presence of huge database.

The application is also able to interface with relational databases should the administrator desire it.

Bold Params indicate Section Headings. *Italic Params* are objects.

Indented Params are configurable variables.

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

Param	Default configuration	Notes
Language	Perl	
Session Setup		
Type	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 found	Off	
<i>Session Manager Setup</i>		
Type	FormVar	
Cgi Object	\$CGI	
Session Params	Session Config Params	
Authentication Setup		For the datasource
Type	File	
Field Delimeter	(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	FFFFFF	
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/Extropa	
Script Display Name	'Address Book'	
Script Name	\$CGI->script_name()	
Page Top View	PageTopView	
Page Bottom View	PageBottomView	
Link Target	'_self' or current window	
<i>User_Fields</i>	Auth_username, auth_password, auth_groups, auth_firstname, auth_lastname, auth_email	
<i>Mail Params</i>		
Type	Sendmail	Default on most systems
<i>User Mail Send Params</i>		
From	you@yourdomain.com	

Subject	Password Generated	
<i>Admin Mail Send Params</i>		
From	you@yourdomain.com	
To	you@yourdomain.com	
Subject	Registration Notification	
<i>Auth Manager Config Params</i>		
Type	CGI	
Allow Registration	On	
Allow User Search	On	Allow anyone to checkfor an old account.
Generate Password	Off	
Default Groups	Normal	
Email Registration to Admin	Off	
Display Registration After Failure	On	
Data Handler Setup		How data is handled
<i>Add Form DHM Config</i>		
Type	CGI	
CGI Object	\$CGI	
Data Handlers	Email, Exists, HTML, String	
Field Mappings	Fname, lname, email, comments	
Datasource Setup		Configure the database and fields displayed
Field Names	record_id, your_name, your_email, friend_name, friend_email, comments, date_time_posted	Corresponds to default extropia database
<i>Sample Default Widget Definitions</i>		
Display Name	Country	Name that appears in the browser
Type	Textfield, textarea	
Name	Fname	Internal field name
Size	30	Display size in characters
Maxlength	80	Maximum number of characters permitted
Rows	6	Initial height of textarea
Cols	30	Initial width of textarea
Wrap	VIRTUAL	Wrapping of text in textarea
<i>Basic Datasource Config Params</i>		
Type	File	
File	\$APP_DATAFILES_DIRECTORY/\$APP_NAME.dat	
Field Delimiter	(pipe)	
Comment Prefix	#	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
<i>Mail Config Params</i>		
Type	Sendmail	
<i>Email Display Fields</i>	Fname, lname, email, comments	Email these fields
<i>Submit Event Mail for User</i>		Warns Someone of Deletions to the database
From	\$CGI->param('your_email')	
To	\$CGI->param('your_email')	
Reply To	\$CGI->param('friend_email')	
Subject	Check out this cool site!	
Logging Setup		
Type	File	
Log File	\$APP_DATAFILES_DIRECTORY/\$APP_NAME.log	
Log Entry Suffix	' ' . _generateEnvVarsString() . ' ',	
Log Entry Prefix	'TellAFriend '	
View Setup		Views to use, display, and defaults
<i>Valid Views</i>	CSSView, ConfirmationView, ThankYouView, FormView	The program cannot display views that are not available here.
<i>View Display Params</i>		Defaults for Views
Application Logo	logo.gif	
Application Logo Height	40	
Application Logo Width	353	
Application Logo ALT	WebDB Demo	
Color for Even Rows	E5E5E5	
Color for Odd Rows	FFFFFF	
Email Display Fields	\@EMAIL_DISPLAY_FIELDS	
Table BG Color 1	6699CC	
Table BG Color 2	E5E5E5	
Table BG Font Color1	BLACK	
Table BG Font Color2	BLACK	
Filter Setup		
<i>HTMLIZE Filter</i>		
Type	HTMLize	
Convert Double Linebreak to P	On	
Convert Linebreak to BR	On	
<i>Charset Filter</i>		
Type	CharSet	
<i>Embed Filter</i>		
Type	Embed	
Enable	Off	
Action/Workflow Setup		
<i>Action Handler List</i>	Defaults	User should not need to modify
<i>Action Handler Action Params</i>		
Action Handler List	\@ACTION_HANDLER_LIST	
User Email Body View	TellAFriendEmailBodyView	

Add Form View Name	AddRecordView	
Allow Additions Flag	On	
Basic Data View Name	BasicDataView	
Confirmation View Name	ConfirmationView	
Form View Name	FormView	
Log Form Submission	On	
Default View	FormView	
Display Acknowledgement	On	
Display Confirmation	On	
Hidden Admin Fields View	HiddenAdminFieldsView	
URL Encoded Admin Fields	URLEncodedAdminFieldsView	
Send User Email	On	
Acknowledgement View	ThankYouView	
Page Top View	PageTopView	
Page Bottom View	PageBottomView	
Key Field	record_id	

3 Functional Requirements

3.1 Tell-a-Friend Application

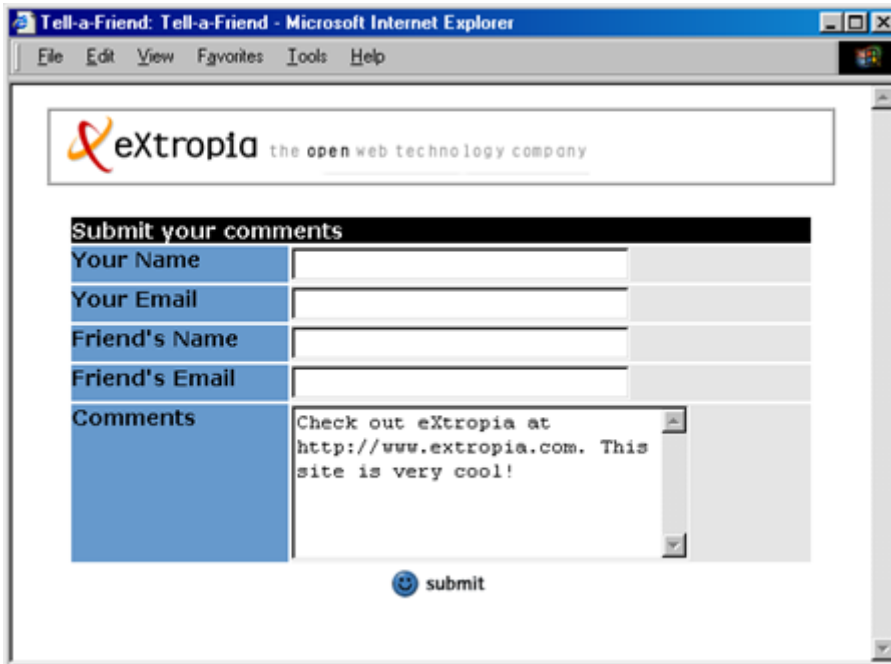
3.1.1 Description

Authentication Definition Views

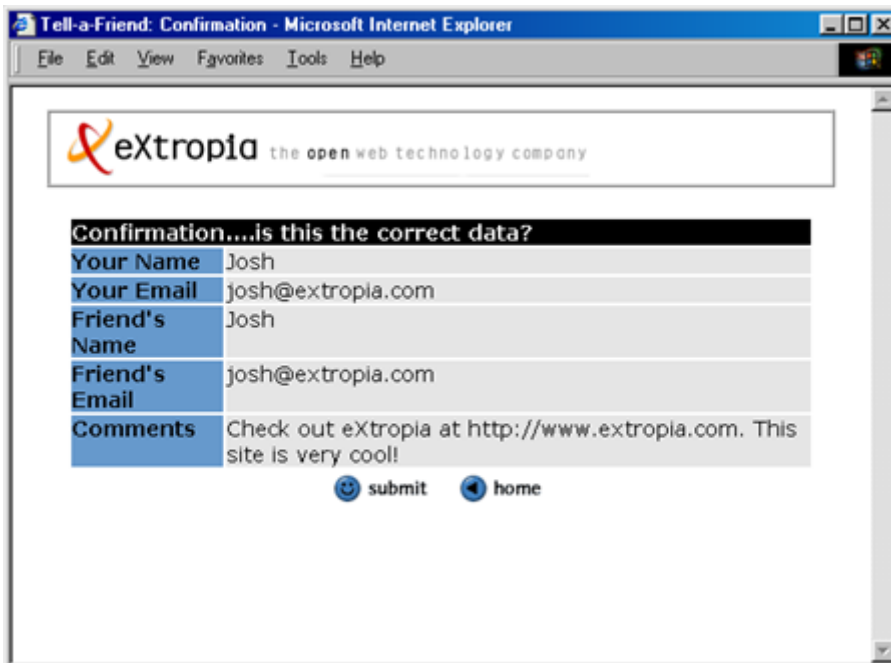
There is no authentication in the default configuration.

Application Specific View Definitions

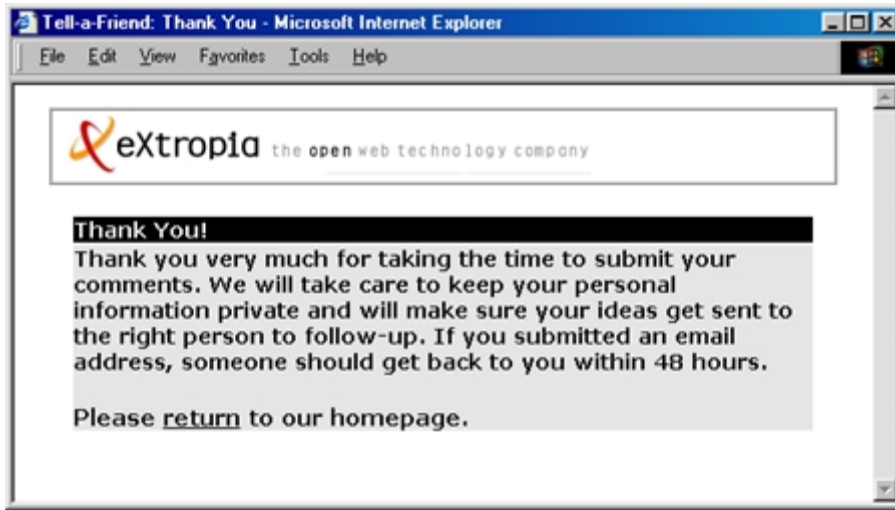
- **Home View** will require user to enter Your Name, Your Email, Friend's Name, Friend's Email, and Comments.



- **Confirmation View** that allows users to confirm their submission before it is submitted.



- **Thank You View** that let users know if their email is successfully sent to their friend.



Common Features Definitions

There are no common features available.

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 '|'.

Field Name	Description
record_id	Record value (Auto Incremental Value)
your_name	User's Name
your_email	User's Email
friend_name	User's friend's name
friend_email	User's friend's email
comments	Comments that user sent
date_time_posted	The date and time that this record is posted.

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 flatfile 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.

5.3 Portability

5.4 Extensibility

Information entered 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 relies on the eXtropa ADT that divorces form and function.

5.5 Reusability

Tell-a-Friend is highly reusable. The application can be modified for just about anything!

5.6 Serviceability