

ADT: Quiz Version 1.0

Requirements Specification

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Document Revisions

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

	Date	Description	Author
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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 Quiz application. So as to provide 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

This specification covers the functional specifications of the Quiz application. This specification does not extend to third party or infrastructure components.

1.3 Overview

The basic requirements summary build-in for the Quiz application:

- To allow any user to send answers to questions.
- To allow only the administrator/authorized person to receive and read the answers from users.
- To allow the administrator to tally results.

1.4 Business Context

Quiz is an application designed for users to send their comments to the website. 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 Quiz will ultimately benefit both the company and our users.

2 General Description

2.1 Product Functions

The general functionality of the Quiz application is to allow users to send their answers to the administrator of the website and to allow the administrator to read and tally the results. The application generates a dynamic page depending on the entered information and the setup preferences.

2.2 General Constraints

The application will be written in Perl and the data files are stored in a common flat file system (ASCII File). This file will cause the script to slow down if there is a lot of data.

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 not available in the default configuration.

Param	Default configuration	Notes
Language	Perl	
Session Setup		No Sessions required
Authentication Setup		There is no Authentication by Default
Authentication Manager Setup		There is no authentication in Default Configuration
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, question1, question2, question3, question4, question5, comments	
Datasource Setup		Configure the database and fields displayed
Field Names	record_id, fname, lname, email, question1, question2, question3, question4, question5, comments, date_time_posted,	Corresponds to default extropia database
<i>Sample Default Widget Definitions</i>		Configure field types for TTML
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>		Configure datasource
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, question1, question2, question3, question4, question5, comments	
<i>Submit Event Send Admin</i>		Tells Admin of additions
From	\$CGI->param('email')	
To	you@yourdomain.com	
Reply To	you@yourdomain.com	
Subject	Contest Entry	
<i>Submit Event Send User</i>		Thanks the user
From	you@yourdomain.com	
To	\$CGI->param('email')	
Reply To	you@yourdomain.com	
Subject	Thank You for Entering	
Logging Setup		No Logging in Default
View Setup		Views to use, display, and defaults
<i>Valid Views</i>	FormView, ConfirmationView, ThankYouView, CSSView	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	CommentForm Demo	
Color for Even Rows	E5E5E5	
Color for Odd Rows	FFFFFF	
Display Fields	category, fname, lname, 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 Color 1	BLACK	
Table BG Font Color 2	BLACK	
Encrypt Setup		Allows encryption
Type	Crypt	
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>	Default::DisplayCSSViewAction Default::CheckForLogicalConfigurationErrorsActi	User should not need to modify. Note that these

	on Default::SimpleForm::ProcessFormAction Default::SimpleForm::DisplayConfirmationAction Default::SimpleForm::DisplaySimpleFormAction	are different than most Apps.
<i>Action Handler Action Params</i>		
Action Handler List	\@ACTION_HANDLER_LIST	
Add Acknowledgment View Name	ThankYouView	
Admin Email Body View	AdminEmailBodyView	
Allow Additions Flag	On	
CGI Object	\$CGI	
Confirmation View Name	ConfirmationView	
CSS View URL	\$CSS_VIEW_URL	For speed, change CSS URL to a location outside the CGI directory.
CSS View Name	CSSView	
Datasource Config Params	\@DATASOURCE_CONFIG_PARAMS	
Display Acknowledgment	On	
Display Confirmation	On	
FormView Name	FormView	Remove or change numbers as desired. This appears under Options.
Hidden Admin Fields View	HiddenAdminFieldsView	
Log Form Submission	On	
Mail Config Params	\@MAIL_CONFIG_PARAMS	
Mail Send Params	\@MAIL_SEND_PARAMS	
Send Email to Admin	On	
Send Email to User	On	
Templates Cache Directory	\$TEMPLATES_CACHE_DIRECTORY	
Valid Views	\@VALID_VIEWS	
View Display Params	\@VIEW_DISPLAY_PARAMS	
View Filters Config Params	\@VIEW_FILTERS_CONFIG_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	
Key Field	record_id	Primary key in database

3 Functional Requirements

3.1 Quiz Application

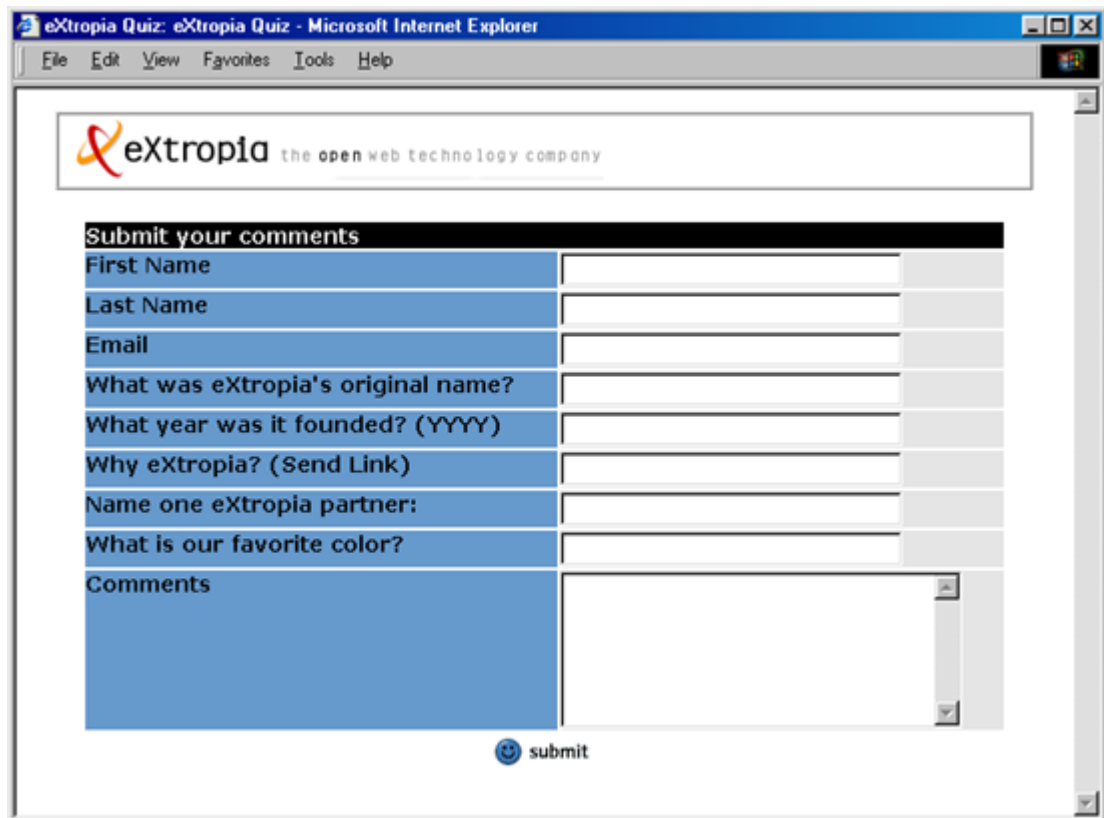
3.1.1 Description

Authentication Definition Views

There is no authentication in the Default configuration.

Application Specific View Definitions

- **Quiz Submit View** asks the user to fill in his First Name, Last Name, Email and Comments.



eXtropa Quiz: eXtropa Quiz - Microsoft Internet Explorer

File Edit View Favorites Tools Help

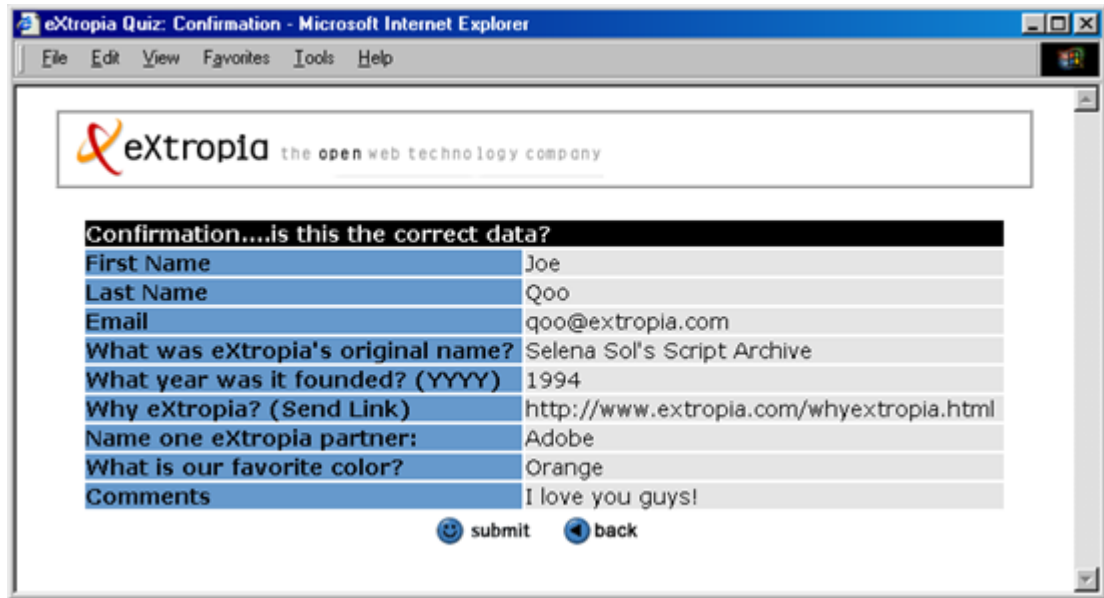
eXtropa the open web technology company

Submit your comments

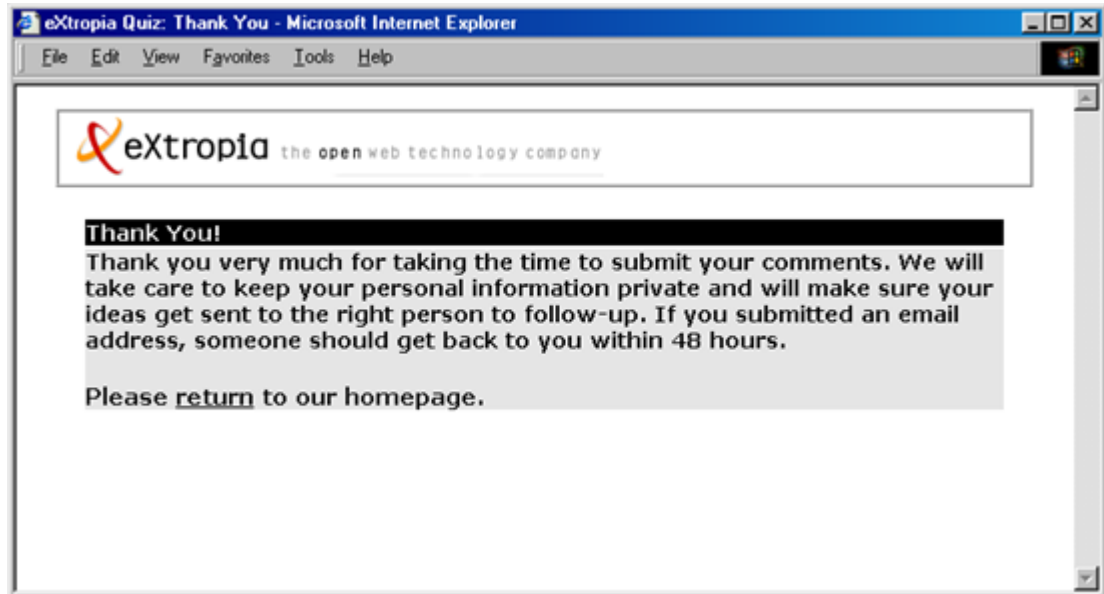
First Name	<input type="text"/>
Last Name	<input type="text"/>
Email	<input type="text"/>
What was eXtropa's original name?	<input type="text"/>
What year was it founded? (YYYY)	<input type="text"/>
Why eXtropa? (Send Link)	<input type="text"/>
Name one eXtropa partner:	<input type="text"/>
What is our favorite color?	<input type="text"/>
Comments	<input type="text"/>

submit

- **Quiz Confirmation View** allows users to confirm their submission.



- **Quiz Acknowledgement Page** confirms a successful submission. It also has a link back to Quiz Basic View.



Common Features Definitions

There are no common features in the Default configuration.

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	Data Type
record_id	Record value	Auto incremental numeric value
fname	First Name	char
lname	Last Name	char
email	Email	Char
comments	Comments	char
question1	question1	char
question2	question2	char
question3	question3	char
question4	question4	char
question5	question5	char

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

Quiz is highly reusable. The application can be modified for just about anything!

5.6 Serviceability