VulnAlert Roadmap

Statement of Purpose:

To create a website that allows security aware users to be alerted to messages on selected email lists that match their specified criteria.

0.1: Basic functionality

- □ Database backend
- □ Perl Backend
 - 1. mail retrieval and parsing into db message format
 - 2. db storage
 - 3. db search&retrieval of messages matching criteria parameters
 - 4. daily rss creation (per user / from criteria)
 - 5. daily email alerts (per user / from criteria)
- ☐ Django/Python Frontend
 - 1. Basic Layout/Interface framework (using django's css as base)
 - 2. Basic Functionality
 - 1. signup
 - 2. login
 - 3. about
 - 4. preferences
 - 1. sources to search
 - 2. criteria with qualifiers
 - 3. alert preference (email/rss)
 - 5. View rss feeds (ie. nice interface thru the web)?

0.2:

- flesh out site design
 - create base design layout
 - redo/tweak layout for all pages
 - add content
 - index
 - about
 - •
 - expand message fields (date/time, from, ...)
 - add to criteria types

0.3: Improve frontend

- AJAXify
 - autosuggest for certain fields?
 - afaxify all forms
- Latest Advisories section
- Statistics section
- Search across all messages in the db
- User Specific
 - create new (mailing list) source
 - Add "Manual Run" on user page to get new alerts now
 - Add alert run frequency

- i.e. daily/hourly/etc
- update preferences so that user can tie particular criteria sets to a sources/delivery formats

0.4:

- Add criteria chains
 - i.e. allow users to create sets of criteria
 - keep default sources/alert method, but allow custom for each criteria chain
 - (subject *contains* "php" *and* message *startswith* ajax) and (subject *does not contain* phpnuke)
 - think best way to do this will be with a list of possible inputs
 - (,), and, or, not, contains, does not contain, is, is not, startswith, etc...
 - and use ajax to drag and drop and rearrage these inputs into a *chain* of criteria
 - trickiest part prob be validation and interpretation into sql
- allow users to add additional mailing list sources
- allow users to set up multiple RSS feeds (for differing criteria)

Todo:	Perl Backend □ add web retrieval / parsing Django Frontend □ Latest Advisories □ Statistics (granulate) □ Search
Todo (more complex): Django/Frontend create new source (mailing list) Create new criteria form: <select> <qualifier> < choice(s) > select = one of our database fields i.e. source.name of message.subject qualifier = is is not contains choices = will morph based on <select> <qualifier> i.e. if select=source.name and qualifier=is or is not will be radio i.e. if select=source.name and qualifier=contains will be textinput</qualifier></select></qualifier></select>
	☐ Create new criteria chain ☐ this should be a set of separated criterias ☐ i.e. <criteria> and <criteria2> not <criteria3> ☐ add parens grouping as well</criteria3></criteria2></criteria>
Todo (most complex): Turn this into a general alerting framework i.e. not just security stuff major addition will be the ability to choose any website and GUI-wise allow the user to manipulate it in order to create an alerting criteria craigslist example: 1. user will input http://portland.craigslist.com as the website 2. backend will

	a.) record their actions that correspond to the criteria for their alert
	i.e. user clicks 'for sale' link, and enters a search term
П	b.) user interface will create something akin to Firefox's Web Developer tools
_	extension's Outline Block Level elements, and the user will click on one of the
	instances
	i.e. user searches for 'xbox'
	would click the block level element:
	Apr- 1 2 xbox 360 games for sale or trade (east
	vancouver)<< <u>electronics</u>
	obviously this will not be easy, however a few strategies:
П	only look at the first page
	assume the immediate higher level element of the Block element chosen in b)
	is the containing element of all the items to grab
	1 1 1 11 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	to correct any mistakes that were made
	searches can be made generic to a large extent – i.e. once one <i>action</i> has been
	created to search craigslist's 'for sale' page it can be made generic to a large
	extent and each user can simply extend the generic part for more specific
NT 4 C	queries.
	ar as the ethical dilemma of page scraping – I think this should be fine as I won't
be storing	any original content, merely linking back to the original site.

FIX:

criteria_type: name AND search_field should be unique

criteria_qualifier should be rename just qualifier