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Generic Anonymous Submission Application

The purpose of our scaffolding application, Generic Anonymous Submission Application (GASA), is for voting up or down anonymously submitted data. This data could be any type of text--a story, a poem, or a simple statement. The data model could even be customized to be an image or any other file format that can be stored and displayed simply with the web2py DAL. The user can customize the application to suit his or her needs. The methods for customization are discussed later in this document.

The general submission application provides the user with the ability to submit his or her own data to be posted to the application. In order for the author to check on the voting results, a search page is available so the user can search for his or her submitted story. We used a unique random number system for users to easily look up their submissions.
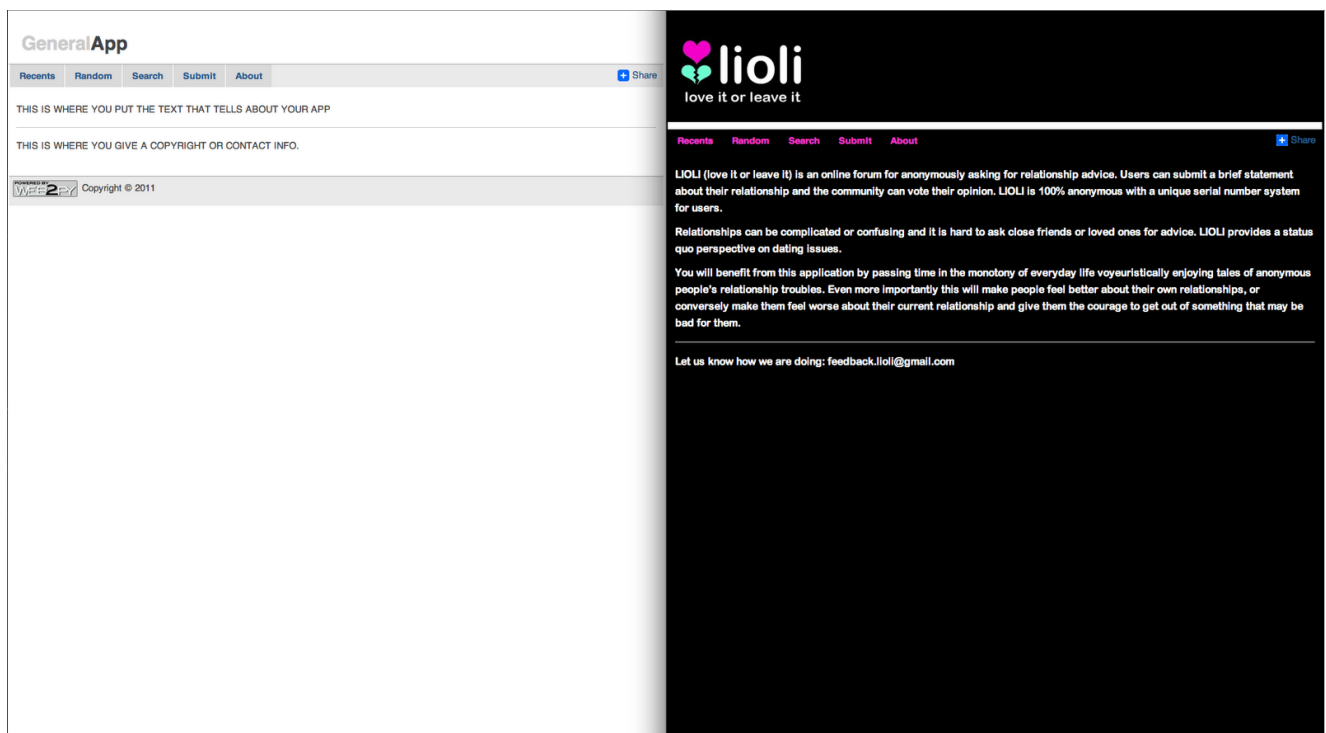
To illustrate a possible use for the scaffolding application, we implemented the application for voting on relationship stories. The basic concept of Love It or Leave It (LIOLI) is that upon opening the application, the user is presented with a story consisting of a few sentences describing a relationship. The user may then vote that the author of the story should "love it" or "leave it," i.e., stay in the relationship or not. The votes are recorded so the author can check back with the application to see what people think the author should do about his or her relationship. Users of the application will be able to peruse the stories using two different methods. The first method is to

view the ten most recent entries. This view utilizes pagination to allow the user to go back through the list in a descending chronological order. The second method of navigating the stories is to view ten entries at random.
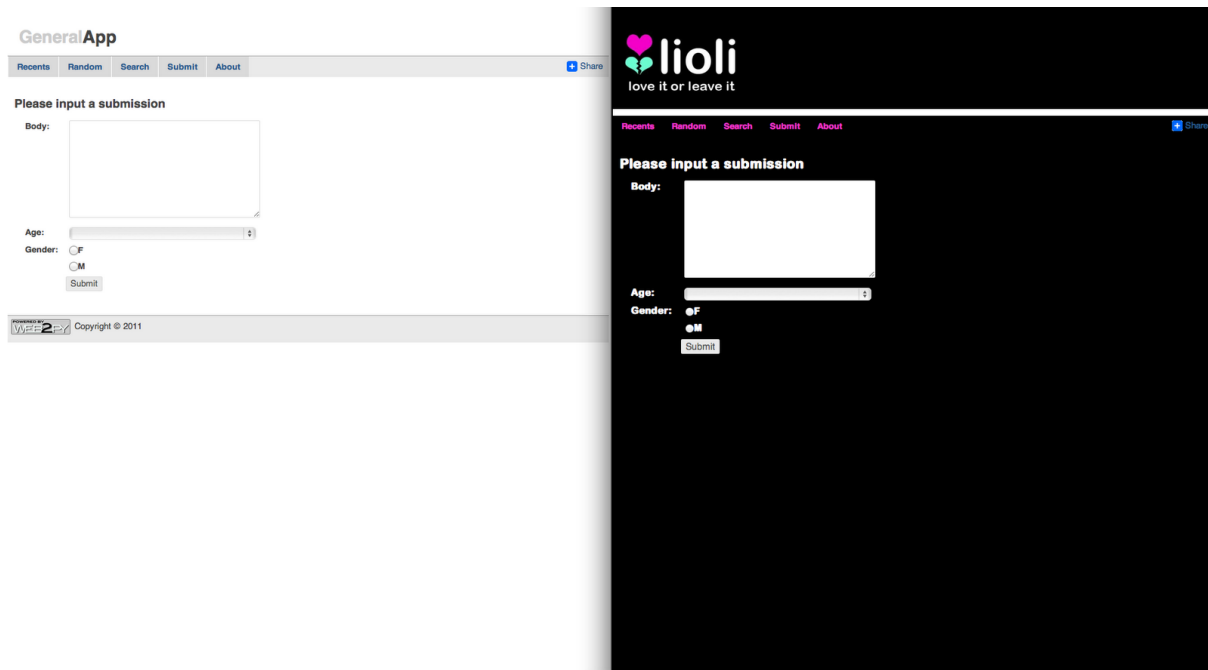
Views

The application has five main views for the guest user. The following screen shots are from our implementation concerning relationship stories, alongside those of the application without any personalization.
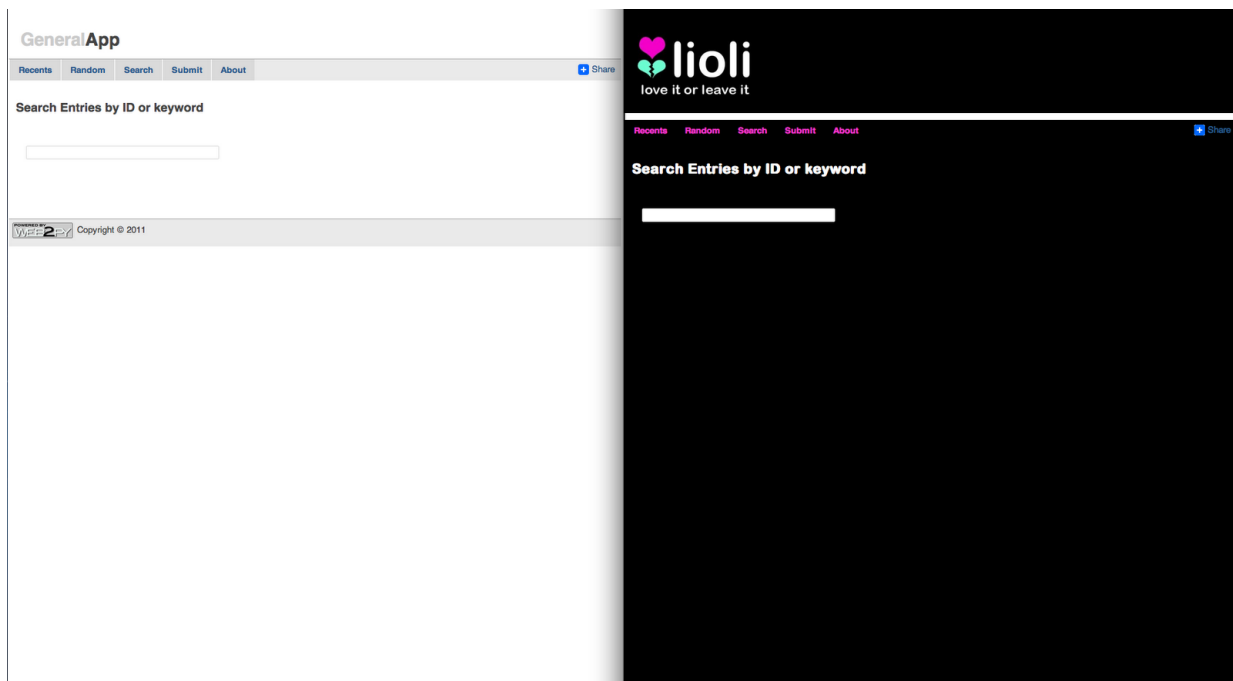
1) The 'About' view gives information about the site.

2) The 'Submit' view gives the viewers the ability to post their own entries to the site.
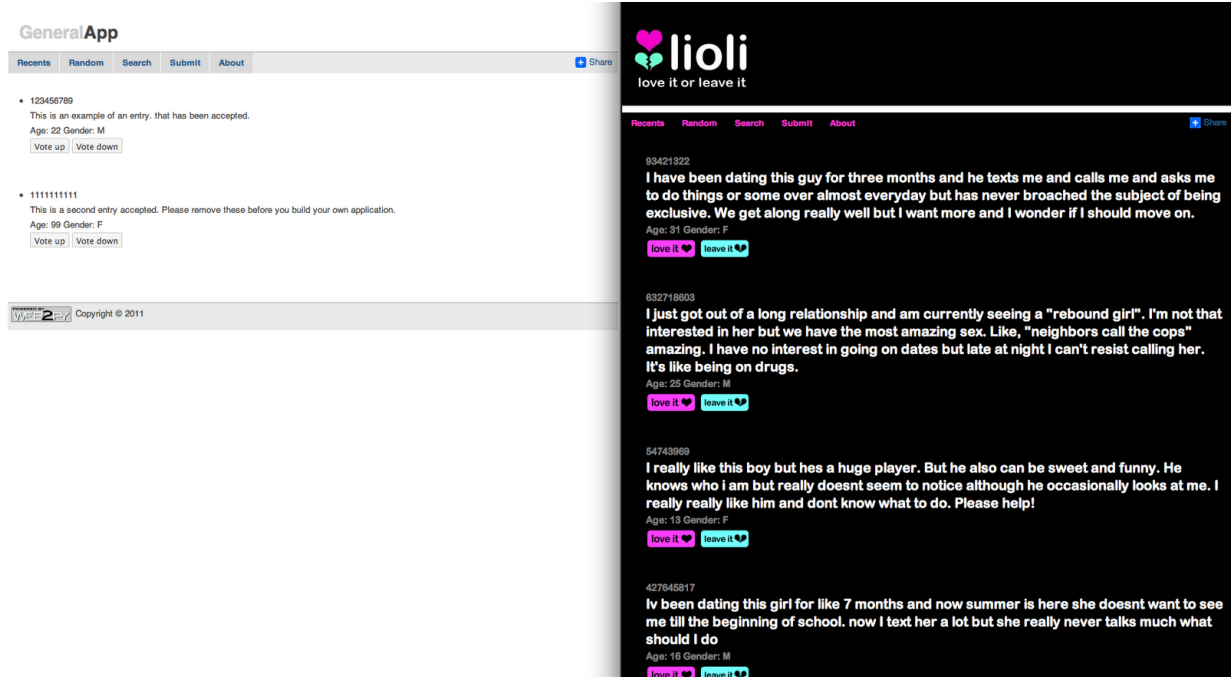
3) The 'Search' view allows users to search the stories by the unique ID and see the amount of votes users have given their entries.
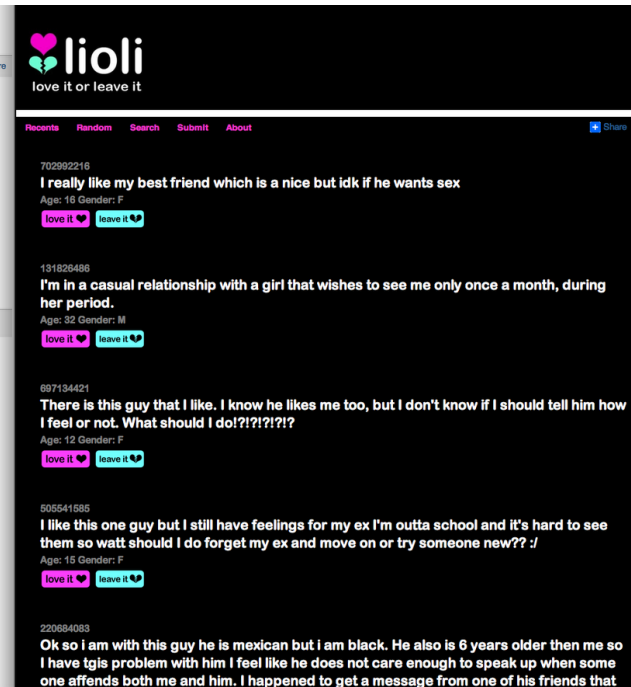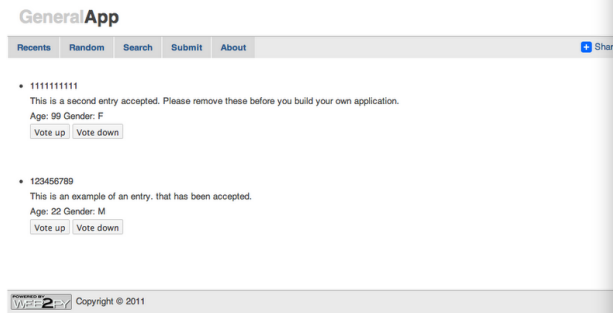

4) The 'Random' view is where the user can find ten random entries pulled from the

database.

5) The 'Recent' view shows the ten most recent entries. This page will also be using pagination so the user has the ability to scroll through more entries.

Moderation:

Another important portion of the application is the moderation interface. Moderators will use this view to log in and see new submissions. From this view the moderators will be able to accept or reject these entries. This functionality will help weed out spam being entered by users or bots. The moderation is implemented using web2py's role based access control. A moderator must be approved and moved into the 'moderation' group by the administrator before being able to access the moderation pages ("…/moderation/new_entries/"). Here are some screen shots from the moderation pages in the LIOLI implementation:

Age: 13 Gender: F

360951670

Ok I like this guy he's sweet and funny but ALL the girls like him. My BFF thinks he likes me but I'm not sure HELP

reject

accept

Welcome to the moderation section

- 360951670

  Ok I like this guy he's sweet and funny but ALL the girls like him. My BFF thinks he likes me but I'm not sure HELP

  Age: 13 Gender: F

- 567335121

  Me and my ex boyfriend broke up 2years ago bcus of arguments and jealousy and he doesnt show me attention.and he has a new girlfriend and a baby on the way but now he come over to my house alot to hang out with my brothers.he doesn't look at me or talk.he act like he doesn't care.he covers his face or just look and turn around like normal and when he come over he looks happy and he act like I'm not around.it's been 2years since we spoke or see each other.I really love him and miss him. Now out of no where i see him around again but he doesnt talk to me.now we like strangers.Do he still care for me? Press leave it if you think he don't

  Age: 21 Gender: F

- 979292188

  ok so, i like this cute guy in my math class who sits behind me and i want to tell him how u feel but i feel invisible to him what should i do? and my friend (who is his friend) thinks we would look cut together but i dont know if i should still have hopes for going out with him :/

  Age: 13 Gender: F

- 335053139

  Been with my guy for 2 years . All this time he was my true prince charming and treated me like a princess . Lately for past couple weeks weve been in lots of arguments and he has changed alot ! One day he pushes me to work it out and the next day he gives up. He has been calling me names which he has never been before! He likes to be out with his friends all the time but i totally trust him since i knew him for a long time through friends. But i want to talk to him a little more during the day since we are long distance now:(now i dont know if i should stay and agree to his sayings and go his way or leave :(

  Age: 28 Gender: F

- 692848879

  He is out all the freaking time .. Makes me wanna throw up!!!!!

  Age: 26 Gender: F

Web Services

GASA has the ability to handle requests through JSON responses. This capability enables applications to insert data into the database to be reviewed

and stored. It also permits these outside applications(such as iOS or android implementations) to get a list of random or recent entries for the user and give him or her the opportunity to vote on those submissions. The search function is also web-enabled. In short, the web services provide similar functions to those that are available through each of the main user views. An example call to get an entry would be "…/ services/call/json/recents/". This call will return a json array of the ten most recent entries. See services.py in the GASA application for more information. Here is a screenshot from the ".../services/call/json/recents/" call in the general application:

```
[{"body": "This is a second entry accepted.  Please remove these before you build your own application.",
"vote_down": 0, "gender": "F", "age": 99, "vote_up": 1, "unique_id": 1111111111}, {"body": "This is an example
of an entry. that has been accepted.", "vote_down": 2, "gender": "M", "age": 22, "vote_up": 2, "unique_id":
123456789}]
```

Customization

Essentially customizing this application will be a short process. It took less than an hour to turn the general application into our LIOLI (http://lioli.net) implementation. The main things to be done for customization is change the css files and add some static content, such as images, to make it more personal. The customization can all take place in the views and static content portion of the application if you want text based submissions. With everything basically built for you, the only thing to worry about is the look as well as the data entries being shared / voted upon.

Database Contents

To change the content type of the subject of the application (i.e., the type of content to be voted on), change the line Field('body', 'text', notnull=True), to a Field

entry describing the type of data you want. For instance to change the content type to images you would create a second table "db**.**define_table**(**'image'**,**Field**(**'title'**,** unique**=True), Field(**'file'**,** 'upload'**),** format **=** '%(title)s'**)"** to hold the image and then change the line in the main table from Field('body', 'text', notnull=True) to Field('image_id', db.image).

```
db.define_table('gasa_main',
    Field('unique_id', 'integer', notnull=True),
    Field('body', 'text', notnull=True),
    Field('vote_up', 'integer', default=0, notnull=True),
    Field('vote_down', 'integer', default=0, notnull=True),
    Field('age', 'integer', notnull=True),
    Field('gender', notnull=True),
    Field('accepted', 'integer', default=0, notnull=True))
```

You must keep in mind that when using non-text data as the body for your custom application, that you have to also change the way it appears in the views(default/recents.html, default/random.html, default/search.html), as well as the way it is submitted (default/submit.html). Don't forget about the moderation or services viewing and submission as well.

Design

This can be done by writing up your own css and just importing it into each of the views. (ex. "default/recents.html" ect.)

Although the LIOLI application is based on the concept of anonymous users voting to love it or leave it on a relationship perspective, the framework can be used for any user submitted text, regardless of the subject matter. Furthermore, the model can be extended for any user submitted data such as pictures, videos, sound files, etc., that

are posted for voting. This makes the application more generic and more versatile.

To see LIOLI in action, visit http://lioli.net.

Contributions

Raymond Elward introduced the idea of GASA/LIOLI. He also developed such aspects of the application as moderation, default views/controllers, and web services. He took on lead as project manager.

Megan Murphy designed the layout of the LIOLI application and contributed to the final report.

Kiem Nguyen implemented the voting functionality of the application and contributed to the final report.