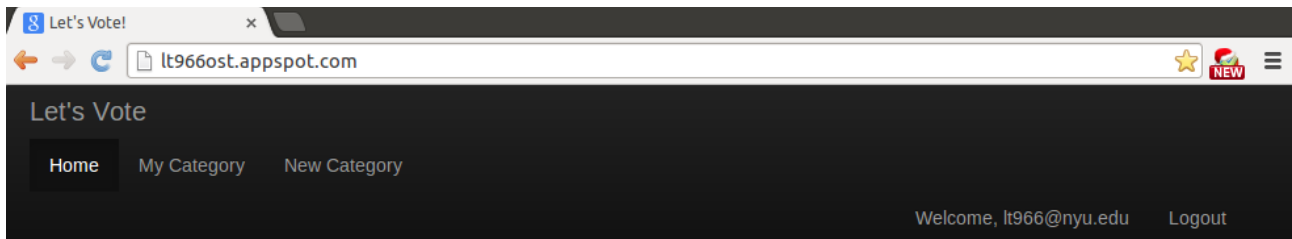


User Guide

This is the index for my project called “Let's Vote!” .



Choose a Category

- [Operating Systems](#)

In this page, you will see the categories to vote. If no category in database, it will be blank.

You can click the link for the category you want to start a vote.

After choosing the category, you will see a page like this:



Play your vote!

Category: Operating Systems

☒ Solaris

☐ Linux

Vote

Skip

Back to [Categories](#) See [All result](#)

It's almost the same what shown in assignment 4. (<http://cs.nyu.edu/~lt966/cgi-bin/test.cgi>)

After voting, the page will be shown as follows:

Let's Vote

[Home](#) [My Category](#) [New Category](#)
Welcome, lt966@nyu.edu [Logout](#)

Current totals

Item name	Win votes
Solaris	2
Linux	2

Vote Next items

Category: Operating Systems

- ☒ Linux
☐ Mac OSX

Vote

Skip

[Back to Categories](#) [See All result](#)

You will know the votes for both items related just know. Also, the another round voting starts.

If you click on the link "Categories", you go back to the home page.
When you choose to see "All result", you will see page as follows:

Let's Vote

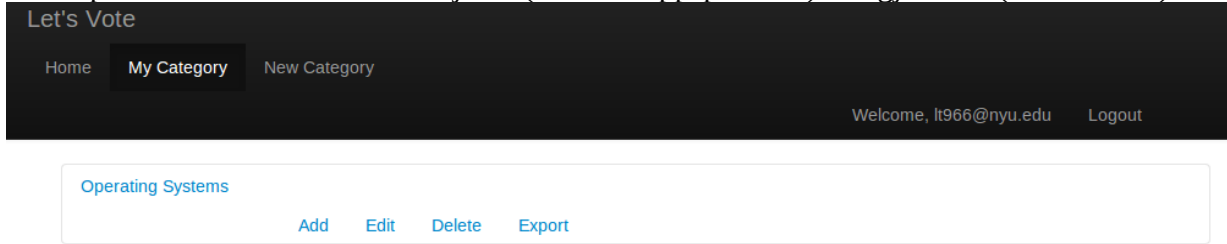
[Home](#) [My Category](#) [New Category](#)
Welcome, lt966@nyu.edu [Logout](#)

Results for Operating Systems

Item Name	Wins	Losses	Percent wins
Solaris	2	0	100
Mac OSX	2	2	50
Linux	2	3	40
Windows 8	0	1	0

Above are all voting functions.

Next, you can click "My Category" to see the categories you create.



Here, the category Openrating Systems is created by the current user.

1. Click “Add” to add an item in this category



2. Click “Edit” to change the name of category.



3. Click “Delete” to delete the whole category
4. Click “Export”, you will see the xml for this category

```
<CATEGORY>
  <NAME>Operating Systems</NAME>
  <ITEM>
    <NAME>Windows 8</NAME>
  </ITEM>
  <ITEM>
    <NAME>Solaris</NAME>
  </ITEM>
  <ITEM>
    <NAME>Linux</NAME>
  </ITEM>
  <ITEM>
    <NAME>Mac OSX</NAME>
  </ITEM>
  <ITEM>
    <NAME>Unix</NAME>
  </ITEM>
</CATEGORY>
```

You can copy this to save as a XML file, to import later.

5. Click the link on category, you can see the list of items in this category.

Operating Systems				
	Add	Edit	Delete	Export
Windows 8 - 1		Edit	Delete	
Solaris - 2		Edit	Delete	
Linux - 5		Edit	Delete	
Mac OSX - 4		Edit	Delete	
Unix - 0		Edit	Delete	

The number after the item shows current total votes it has, including losing ones.

1. Click “Edit” to edit the name of item.

Let's Vote

[Home](#)[My Category](#)[New Category](#)

Then, the votes for this item will be deleted.

Operating Systems				
	Add	Edit	Delete	Export
Windows 7 - 0		Edit	Delete	
Solaris - 2		Edit	Delete	
Linux - 5		Edit	Delete	
Mac OSX - 4		Edit	Delete	
Unix - 0		Edit	Delete	

2. Click “Delete” to delete the item in this category.

Operating Systems				
	Add	Edit	Delete	Export
Solaris - 2		Edit	Delete	
Linux - 5		Edit	Delete	
Mac OSX - 4		Edit	Delete	
Unix - 0		Edit	Delete	

So, functions above meet parts of the first advanced feature: Allow a user to change the items in a category. When this happens, the results for that item must be removed.

The rest of features, Also, imports must be supported that replace a

Open Source Tools Final Project (lt966ost.appspot.com) Longjun Tan (N15961371)
previous import (meaning items that do not change are preserved, items that are removed have results deleted)., will be shown next.

Next, click “New Category” to create a new category.

This time, it support to add more than one item once, which is more user friendly.

Let's Vote

Home My Category New Category

Create a category

Input category name: Programming Language

Input item name: C++

Input item name: Python

Input item name: Java

Input item name:

submit

import XML

After submit, the category is created successfully.

Let's Vote

Home My Category New Category

Operating Systems

Add Edit Delete Export

Programming Language

Add Edit Delete Export

Java - 0	Edit	Delete
Python - 0	Edit	Delete
C++ - 0	Edit	Delete

Next step, let's try import XML file.

Before:

Operating Systems				
	Add	Edit	Delete	Export
IOS - 0		Edit	Delete	
Solaris - 2		Edit	Delete	
Linux - 5		Edit	Delete	
Mac OSX - 4		Edit	Delete	
Unix - 0		Edit	Delete	

Using the XML created above:

```
lt966ost.appspot.com/category/exp
<CATEGORY>
  <NAME>Operating Systems</NAME>
  <ITEM>
    <NAME>Windows 8</NAME>
  </ITEM>
  <ITEM>
    <NAME>Solaris</NAME>
  </ITEM>
  <ITEM>
    <NAME>Linux</NAME>
  </ITEM>
  <ITEM>
    <NAME>Mac OSX</NAME>
  </ITEM>
  <ITEM>
    <NAME>Unix</NAME>
  </ITEM>
</CATEGORY>
```

So, IOS should be deleted, Windows 8 should be added, other items' vote should preserved.

After importing, we get :

Operating Systems				
	Add	Edit	Delete	Export
Solaris - 2		Edit	Delete	
Linux - 5		Edit	Delete	
Mac OSX - 4		Edit	Delete	
Windows 8 - 0		Edit	Delete	
Unix - 0		Edit	Delete	

Everything goes fine!
Enjoy testing! Thanks for your work!

Developer Guide

In my project folder, there are several python files, one yaml file and two subfolders. I will explain them in the order to create this website.

1. app.yaml is an configuration file for an App Engine application. Index.py is the entrance of this app.
2. Router.py is about webapp framework.
3. The first class View in views.py is in charge of users service, which meets one of professor's requirement – logged-in user only.
4. Models.py is for using datastore.
By using db.ReferenceProperty, I design the database structure as:
 - a) Category
Category has a name and an owner, which is a User type. Also, one category has one collection called items.
 - b) Item
A Item has its name. Also, an item has a collections as votes. Meanwhile, there are several methods for item, such as remove votes, counting winning votes.
 - c) Vote
A vote has a type (win or lose), also has a voter, which might be used in the future.
5. Views.py is the main file for this app.
 - a) MainPage class is for the home page, to show all categories, then render to index.html
 - b) Category_View is for the methods happened with category, such as create, delete, edit and so on. Since the voting is more likely category's function, I also put vote() in category class.
 - c) Item_View is in charge of the methods on items, like delete, edit ,etc.
6. The template folder is using for the all HTML files which will be rendered in the views.py, which meets professor's requirement – must render HTML with templates.
7. The image folder includes css, images and js subfolder, which are used to optimize the User Interface. It's just for future extension.