CSCE 606 Iteration 4 Team: Flyer

Customer meeting date to demo this iteration:

We met our customer Dr. Yu on 12/02/2016 Friday afternoon.

Main work this week

- 1. We discussed our work with customer. The followings are several suggestions from customer:
- Search
 - to make the search box bigger
 - one needs to be able to select how many datasets to display per page.
- User make selections on the questoins (bug fix: clear bottom)
- Seperate the keywords and datasets (*)
- for each keyword -> load all the datasets (optionally, the group admin may select a subset of the datasets to assign to users
 - For each keyword associated it with one or more questions
 - Multiple keywords may have the same question.
- For question answers, two modes
 - multiple choices (select only one, or multiple)
 - free form (no statistics)
 - multiple choices & free form
- Based on the free form questions, group admin may design new questions on selected datasets.
- 2. We complete statistics function planned for this iteration.
- 3. We have debugged and improved interfaces.

User stories implemented in this iteration:

Feature: Viewing my submission

As a user

So that I can review my answers

I want to view my submission of questions

Feature: Recording the curation results

As a administrator

So that I can choose curators who can be trusted more

I want to evaluate curators based on their past performance

Feature: Statistics of answers

As a administrator

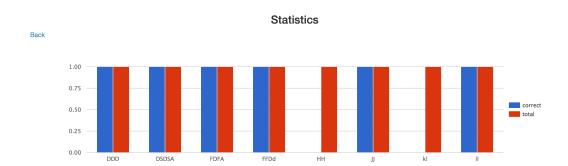
So that I can have an intuitionistic knowledge of the curation results I want to calculate the accuracy of each questions and draw graphs

Views

Back

Views for statistics:

Successfully submitted.	ccessfully submitted.				
Duefile	Question	Accession	Choice	reason	
Profile	FDFA	E-GEOD-57691	Yes	sda	
Name flyer1	FFDd	E-GEOD-57691	No	fdsas	
Email flyer1@gmail.com	DSDSA	E-GEOD-57691	Yes		
Joined 2016-12-06 15:46:28 UTC	DDD	E-GEOD-57691	Yes	fdsadsf	
Submissions 13	GGH	E-MTAB-3175	No		
	нн	E-GEOD-57691	No	cxz	
START!	НН	E-MTAB-3175	Yes		
Admin	JJ	E-GEOD-57691	Yes	xxx	
All Users	JJ	E-MTAB-3175	Yes		
Add Question Groups	kl	E-GEOD-57691	No		
Groups	kl	E-MTAB-3175	No		
	II	E-GEOD-57691	Yes	heart related	
	II	E-MTAB-3175	Yes		



Group Statistics

1.00

0.75

0.50

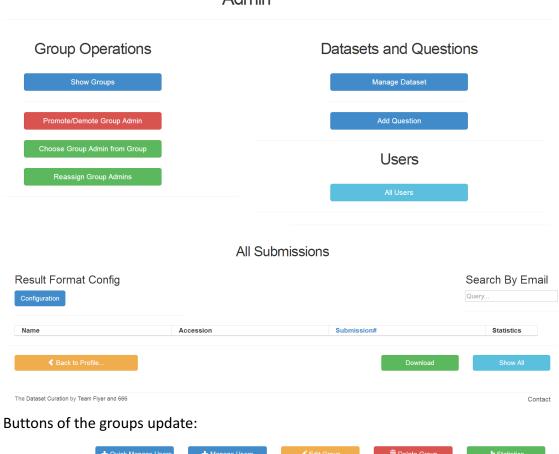
0.00

0.0 to 0.1 0.1 to 0.2 0.2 to 0.3 0.3 to 0.4 0.4 to 0.5 0.5 to 0.6 0.6 to 0.7 0.7 to 0.8 0.8 to 0.9 0.9 to 1.0

Features changes:

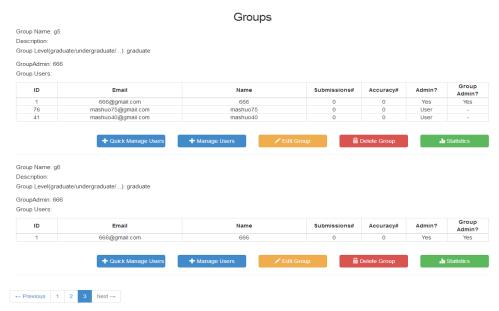
Admin Page Reconstruction:

Admin





Multiple pages support on each group operation:



Quickly Manage Users in Group: g5

Users in the group: Users not in the group: Name: mashuo92 Email: mashuo92@gmail.com Name: mashuo75 Email: mashuo75@gmail.com Name: mashuo40 Email: mashuo40@gmail.com Name: mashuo93 Email: mashuo93@gmail.com Name: mashuo83 Email: mashuo83@gmail.com Name: mashuo94 Email: mashuo94@gmail.com Name: mashuo84 Email: mashuo84@gmail.com Name: mashuo95 Email: mashuo95@gmail.com Name: mashuo85 Email: mashuo85@gmail.com Name: mashuo96 Email: mashuo96@gmail.com Name: mashuo86 Email: mashuo86@gmail.com Name: mashuo97 Email: mashuo97@gmail.com Name: mashuo87 Email: mashuo87@gmail.com Name: mashuo98 Email: mashuo98@gmail.com Name: mashuo88 Email: mashuo88@gmail.com Name: mashuo99 Email: mashuo99@gmail.com Name: mashuo89 Email: mashuo89@gmail.com Name: flyer1 Email: flyer1@gmail.com Name: mashuo90 Email: mashuo90@gmail.com Name: flyer2 Email: flyer2@gmail.com Name: mashuo91 Email: mashuo91@gmail.com Name: flyer3 Email: flyer3@gmail.com Name: mashuo100 Email: mashuo100@gmail.com

Choose Group Admin from Group

Group Name: TestGroup3

Description:

 $Group\ Level (graduate/undergraduate/...):\ graduate$

GroupAdmin: flyer3

Group Users:

ID	Email	Name	Accuracy#	GroupAdmin?	Select Button
104	flyer3@gmail.com	flyer3	0.0	True	0
30	mashuo29@gmail.com	mashuo29	0.0	False	0
31	mashuo30@gmail.com	mashuo30	0.0	False	0

Change Group Admin to Selected

Group Name: g4

Description:

Group Level(graduate/undergraduate/...): graduate

GroupAdmin: 666

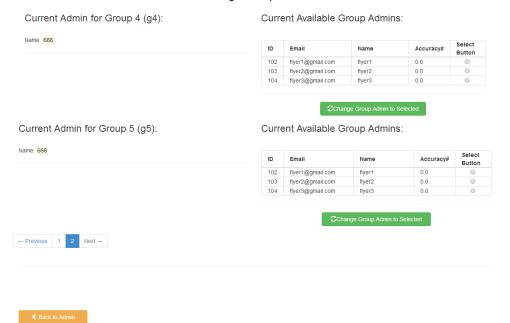
Group Users:

ID	Email	Name	Accuracy#	GroupAdmin?	Select Button
1	666@gmail.com	666	0.0	False	

Change Group Admin to Selected



Reassign Group Admins



TDD&BDD for group function:

Fullquestions Model Rspec:

require 'rails_helper'

```
describe Fullquestion do
  #Test Associations and Validations
  describe "Associations + Validations" do
     it "associations" do
      assc1 = Fullquestion.reflect_on_association(:fullsubmissions)
      assc2 = Fullquestion.reflect_on_association(:users)
      expect(assc1.macro).to eq :has_many
      expect(assc2.macro).to eq :has_many
      expect(assc2.through_reflection.name).to eq:fullsubmissions
     it "validations" do
     end
  end
  #Test Fullquestion.convert_ans
  describe "Convert DB answer string to meaningful 'Yes/No/Not Given' options" do
     it "should return correct results depending on input integers" do
       i='1'; j='2'; k='3';
       expect(Fullquestion.convert_ans(i)).to eq('Yes')
       expect(Fullquestion.convert_ans(j)).to eq('No')
       expect(Fullquestion.convert_ans(k)).to eq('Not Given')
       expect(Fullquestion.convert_ans('4')).to be_nil
     end
  end
```

```
#Test .get_answer
#Due to different mechanisms, the answer is given in two ways:
#Direct way or Indirect way
#Direct way is that the ganswer field in DB equals to '1' or '2'
#Indirect way is that the qanswer field in DB equals to '3'
#Each time when an answer-fetching is requested, this function will be called
#For Direct way just convert it, for indirect way, calculate from all the
#submissions and find out the answer.
describe "Get answer of the fullquestion" do
   fixtures :users
   fixtures :groups
   fixtures :fullquestions
   before(:each) do
    #Group operations
    User.find_by_id(1).groups << Group.find_by_id(1)
    User.find_by_id(2).groups << Group.find_by_id(2)
    User.find by id(3).groups << Group.find by id(3)
    #Ouestion distributions
    User.find_by_id(1).fullquestions << Fullquestion.find_by_id(3)
    User.find_by_id(2).fullquestions << Fullquestion.find_by_id(3)
    User.find_by_id(3).fullquestions << Fullquestion.find_by_id(3)
   end
     it "Total submissions should equal to 3 at the beginning" do
        expect(Fullsubmission.all.count).to eq(3)
     it "#get answer should return corresponding answer string" do
        expect(Fullquestion.find_by_id(1).get_answer).to eq('1')
        expect(Fullquestion.find_by_id(2).get_answer).to eq('1')
        #User operate submissions
        User.find_by_id(1).fullsubmissions.each do |submit|
          if(submit.fullquestion_id == Fullquestion.find_by_id(3))
             submit.update_attribute(choice => '2')
             submit.update attribute(reason => 'Not Connected')
          end
        end
        User.find by id(2).fullsubmissions.each do |submit|
          if(submit.fullquestion_id == Fullquestion.find_by_id(3))
             submit.update attribute(choice => '2')
             submit.update_attribute(reason => 'Not Connected')
          end
        end
        User.find by id(3).fullsubmissions.each do |submit|
          if(submit.fullquestion id == Fullquestion.find by id(3))
             submit.update_attribute(choice => '2')
             submit.update_attribute(reason => 'Not Connected')
          end
        end
        #Now call get_ans should return '2'---'No'
        @not_given_answer_question = Fullquestion.find_by_id(3)
        expect(Fullquestion.find by id(3).get answer).to eq('2')
     end
  end
end
```

Test Result:

```
hawkzuo:~/workspace/DiseaseDatasetCuration (group_rspecs) $ rspec spec/models/fullquestion_rspec.rb
.....
Finished in 0.24721 seconds (files took 6.72 seconds to load)
5 examples, 0 failures
```

Groups enhanced Rspec (Add Associations and Validations):

```
describe Group do
  #Test associations and validations
  describe "Associations + Validations" do
     it "associations" do
      assc1 = Group.reflect_on_association(:users)
      expect(assc1.macro).to eq :has_and_belongs_to_many
     end
     it "validations" do
      grp1 = Group.new(name: nil)
      expect(grp1).to_not be_valid
      grp2 = Group.new(name: 'grp2')
      expect(grp2).to_not be_valid
      grp3 = Group.new(name: 'grp3', admin_uid: 1)
      expect(grp3).to be_valid
     end
  end
```

Test Result:

```
hawkzuo:~/workspace/DiseaseDatasetCuration (group_rspecs) $ rspec spec/models/group_rspec.rb
.....
Finished in 0.2157 seconds (files took 4.35 seconds to load)
6 examples, 0 failures
```

Groups Controller enhanced Rspec (Add #performadd and #quickadduser):

```
#Test .quickadduser/.performadd
describe "Admins can add user quickly through quickadd button" do
  fixtures :users
  fixtures :groups
  include SessionsHelper
  before(:each) do
   User.find_by_id(1).groups << Group.find_by_id(1)
User.find_by_id(2).groups << Group.find_by_id(2)
    User.find_by_id(3).groups << Group.find_by_id(3)
   #.quickadduser
  it \ \hbox{$"$'quickadduser'$ should locate the correct group that offering addition} \ \ do
     log_in(User.find_by_id(4))
     get :quickadduser, {:id => 1}
     expect(assigns(:group)).to eql(Group.find(1))
  end
  it "'quickadduser' should divide users into two sections by judging if
     they are in this group, doesn't count group admin for users in the group" \boldsymbol{do}
     log_in(User.find_by_id(4))
     get :quickadduser, {:id => 1}
     expect(assigns(:group_users).count).to eq(0)
     expect(assigns(:not_group_users).count).to eq(3)
  end
  it "'quickadduser' should have a view to offer choices on these users" do
     log_in(User.find_by_id(4))
     get :quickadduser, {:id => 1}
     expect(response).to render_template(:quickadduser)
  end
```

```
#.performadd
  it "'performadd' should receive param and find the corresponding group
     to operate on do
     log in(User.find by id(4))
     post :performadd, {:id => 1}
     expect(assigns(:group)).to eql(Group.find(1))
  it "'performadd' should return to previous page if no user is
     selected" do
     log_in(User.find_by_id(4))
     post :performadd, {:id => 1}
     expect(response).to redirect_to quick_group_add_path
  it "'performadd' should add new users to the group if
     add-button clicked, regardless of
     what is selected from delete-button area" do
     log_in(User.find_by_id(4))
     post :performadd, {:id => 1, :n_role_ids => [2,3] }
     expect(Group.find(1).users.count).to eq(3)
  end
  it "'performadd' should delete users to the group if
     delete-button clicked, regardless of
     what is selected from add-button area" do
     log in(User.find by id(4))
     post :performadd, \{:id => 1, :n \text{ role ids } => [2,3] \}
     expect(Group.find(1).users.count).to eq(3)
     post :performadd, {:id => 1, :role_ids => [2,3] }
     expect(Group.find(1).users.count).to eq(1)
  end
  it "'performadd' should redirect to groups index page when
     adding process is done." do
     log_in(User.find_by_id(4))
     post :performadd, {:id => 1, :n_role_ids => [2,3] }
     expect(response).to redirect_to quick_group_add_path(Group.find(1))
end
```

Test Result:

Pivotal Tracker, Github repo, and Heroku links:

Pivotal: https://www.pivotaltracker.com/n/projects/1887551

Github: https://github.com/xvxiaopei/CSCE606-project

Heroku: http://disease.herokuapp.com/