

# 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

Views for statistics:

GENETIC DATASET CURATION

HomeTutorialHello, flyer1

Successfully submitted.

Profile

Nameflyer1

Emailflyer1@gmail.com

Joined2016-12-06 15:46:28 UTC

Submissions13

START!

Admin

All Users

Add Question

Groups

Question	Accession	Choice	reason
FDFA	E-GEOD-57691	Yes	sda
FFDd	E-GEOD-57691	No	fdsas
DSDSA	E-GEOD-57691	Yes	
DDD	E-GEOD-57691	Yes	fdsadsf
GGH	E-MTAB-3175	No	
HH	E-GEOD-57691	No	cxz
HH	E-MTAB-3175	Yes	
JJ	E-GEOD-57691	Yes	xxx
JJ	E-MTAB-3175	Yes	
kl	E-GEOD-57691	No	
kl	E-MTAB-3175	No	
ll	E-GEOD-57691	Yes	heart related
ll	E-MTAB-3175	Yes	

The Dataset Curation by Team Flyer and 666

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Statistics

Question	correct	total
DDD	1.00	1.00
DSDSA	1.00	1.00
FDFA	1.00	1.00
FFDd	1.00	1.00
HH	0.00	1.00
JJ	1.00	1.00
kl	0.00	1.00
ll	1.00	1.00

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Group Statistics

Accuracy Range	Number of user in the accuracy range
0.6 to 0.7	1.00

Features changes:  
Admin Page Reconstruction:

Admin

Group Operations

Show Groups

Promote/Demote Group Admin

Choose Group Admin from Group

Reassign Group Admins

Datasets and Questions

Manage Dataset

Add Question

Users

All Users

All Submissions

Result Format Config

Configuration

Search By Email

Query...

Name	Accession	Submission#	Statistics
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Show All

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Buttons of the groups update:

+ Quick Manage Users

+ Manage Users

Edit Group

Delete Group

Statistics

Multiple pages support on each group operation:

Groups

Group Name: g5  
Description:  
Group Level(graduate/undergraduate/...): graduate  
GroupAdmin: 666  
Group Users:

ID	Email	Name	Submissions#	Accuracy#	Admin?	Group Admin?
1	666@gmail.com	666	0	0	Yes	Yes
76	mashuo75@gmail.com	mashuo75	0	0	User	-
41	mashuo40@gmail.com	mashuo40	0	0	User	-

+ Quick Manage Users

+ Manage Users

Edit Group

Delete Group

Statistics

Group Name: g6  
Description:  
Group Level(graduate/undergraduate/...): graduate  
GroupAdmin: 666  
Group Users:

ID	Email	Name	Submissions#	Accuracy#	Admin?	Group Admin?
1	666@gmail.com	666	0	0	Yes	Yes

+ Quick Manage Users

+ Manage Users

Edit Group

Delete Group

Statistics

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Quickly Manage Users in Group: g5

Users in the group:

- Name: mashuo75 Email: mashuo75@gmail.com
- Name: mashuo40 Email: mashuo40@gmail.com
- Name: mashuo83 Email: mashuo83@gmail.com
- Name: mashuo84 Email: mashuo84@gmail.com
- Name: mashuo85 Email: mashuo85@gmail.com
- Name: mashuo86 Email: mashuo86@gmail.com
- Name: mashuo87 Email: mashuo87@gmail.com
- Name: mashuo88 Email: mashuo88@gmail.com
- Name: mashuo89 Email: mashuo89@gmail.com
- Name: mashuo90 Email: mashuo90@gmail.com
- Name: mashuo91 Email: mashuo91@gmail.com
- Name: mashuo100 Email: mashuo100@gmail.com

Delete selected

Users not in the group:

- Name: mashuo92 Email: mashuo92@gmail.com
- Name: mashuo93 Email: mashuo93@gmail.com
- Name: mashuo94 Email: mashuo94@gmail.com
- Name: mashuo95 Email: mashuo95@gmail.com
- Name: mashuo96 Email: mashuo96@gmail.com
- Name: mashuo97 Email: mashuo97@gmail.com
- Name: mashuo98 Email: mashuo98@gmail.com
- Name: mashuo99 Email: mashuo99@gmail.com
- Name: flyer1 Email: flyer1@gmail.com
- Name: flyer2 Email: flyer2@gmail.com
- Name: flyer3 Email: flyer3@gmail.com

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Add selected

Back to Groups

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	<input type="radio"/>
30	mashuo29@gmail.com	mashuo29	0.0	False	<input type="radio"/>
31	mashuo30@gmail.com	mashuo30	0.0	False	<input type="radio"/>

↻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	<input type="radio"/>

↻Change Group Admin to Selected

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## Reassign Group Admins

Current Admin for Group 4 (g4):

Name: 666

Current Available Group Admins:

ID	Email	Name	Accuracy#	Select Button
102	flyer1@gmail.com	flyer1	0.0	<input type="radio"/>
103	flyer2@gmail.com	flyer2	0.0	<input type="radio"/>
104	flyer3@gmail.com	flyer3	0.0	<input type="radio"/>

[Change Group Admin to Selected](#)

Current Admin for Group 5 (g5):

Name: 666

Current Available Group Admins:

ID	Email	Name	Accuracy#	Select Button
102	flyer1@gmail.com	flyer1	0.0	<input type="radio"/>
103	flyer2@gmail.com	flyer2	0.0	<input type="radio"/>
104	flyer3@gmail.com	flyer3	0.0	<input type="radio"/>

[Change Group Admin to Selected](#)

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## 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)
```

```
      #debugger
```

```
      expect(assc1.macro).to eq :has_many
```

```
      expect(assc2.macro).to eq :has_many
```

```
      expect(assc2.through_reflection.name).to eq :fullsubmissions
```

```
    end
```

```
    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 qanswer 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)
    #Question 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)
  end

  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
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
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)
  end
  #.quickadduser

  it "'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 eq(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" 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
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 eq(Group.find(1))
end
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
end
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_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
end
end

```

#### Test Result:

```

hawkzuo:~/workspace/DiseaseDatasetCuration (group_rspects) $ rspec spec/controllers/groups_controller_spec.rb
.....

Finished in 0.98507 seconds (files took 5.22 seconds to load)
20 examples, 0 failures

```

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/>