

# CSCE 606 Iteration 2

## Team: Flyer

### Customer meeting date to demo this iteration:

We tried to meet on 11/18/2016 Friday afternoon. However, our custom is not free. We'll try to schedule another time to demonstrate and discuss current work.

### User stories implemented in this iteration:

Feature: Extracting the data set from public websites

As an administrator

So that I can automatically assign the data set to users

I want to provide the term for searching in ArrayExpress (<https://www.ebi.ac.uk/arrayexpress/>)

Feature: Assigning Questions with dataset

As an administrator

So that I can assign 1-5 Yes or No questions to a set of dataset

I want to ask user to show their curation results related to these questions

Feature: Assigning datasets to a certain group

As an administrator

So that I can assign datasets to a group of students

I want to choose which group the datasets are sent to.

Feature: Adding Groups Mechanism to the System

As a stakeholder (power admin),

So that I can manage groups(CRUD) and promote/demote users to become a group admin.

I want the group admin to be able to manage his/her own group, too.

## Views

User view for searching dataset:

Search for keywords:

GENETIC DATASET CURATION

HomeTutorialHello, 666 ▾

search information

heart

search

Dataset Selection

Accession

Name

Confirm

Question

Add

Confirm

show search results:

GENETIC DATASET CURATION

HomeTutorialHello, 666 ▾

search information

heart

search

Dataset Selection

Accession

Name

☒ E-MTAB-5214

RNA-seq from 52 human tissue samples from the Genotype-Tissue Expression (GTEx) Project

☒ E-GEO-73431

Developmental gene expression of *Xenopus laevis* J strain

☒ E-GEO-

Tissue gene expression of *Xenopus laevis* J strain [tissue]

Confirm

Question

Add

Confirm

## Group Function:

Links to the group index page (only available to admins):

GENETIC DATASET CURATION

HomeTutorialHello, flyer1

Admin

Show Groups

Configuration

Query

ProfileAdminUsersConfigurationGroupsLog out

ID	Status	Disease	Accession	Submission#	Related#	Unrel#	
1	Active	Abdominal aortic aneurysm	E-GEOD-57691	10	4	6	Histogram
2	Active	Abdominal aortic aneurysm	E-MTAB-3175	5	3	2	Histogram
3	Active	Abdominal aortic aneurysm	E-GEOD-63541	7	3	4	Histogram
4	Active	Abdominal aortic aneurysm	E-GEOD-62179	4	2	2	Histogram
5	Active	Abdominal aortic aneurysm	E-GEOD-47472	7	2	5	Histogram
6	Active	Abdominal aortic aneurysm	E-MEXP-1346	3	1	2	Histogram
7	Active	Acanthosis nigricans	E-GEOD-9006	1	1	0	Histogram
8	Active	Achalasia	E-GEOD-48099	1	0	1	Histogram
9	Active	Achondroplasia	E-MEXP-2276	5	1	4	Histogram
10	Active	Acinic cell carcinoma	E-GEOD-73350	3	0	3	Histogram
11	Active	Acinic cell carcinoma	E-TABM-48	5	1	4	Histogram
12	Active	Acoustic neuroma	E-MTAB-1574	5	1	4	Histogram
13	Active	Acoustic neuroma	E-GEOD-54934	3	1	2	Histogram
14	Active	Acoustic neuroma	E-GEOD-43571	3	0	3	Histogram
15	Active	Acoustic neuroma	E-GEOD-47913	9	5	4	Histogram

Download

Users

Show All

## Group index pages:

For group admins:

GENETIC DATASET CURATION

HomeTutorialHello, flyer1

Groups

Group Name: TestGroup1

Description: Testing...

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

GroupAdmin: flyer1

Group Users:

ID	Email	Name	Submission#	Closed Submission	Correct#	Accuracy#
103	flyer1@gmail.com	flyer1	10	0	0	0.0
3	mashuo1@gmail.com	mashuo1	6	0	0	0.0
4	mashuo2@gmail.com	mashuo2	9	0	0	0.0
5	mashuo3@gmail.com	mashuo3	4	0	0	0.0
6	mashuo4@gmail.com	mashuo4	5	0	0	0.0
7	mashuo5@gmail.com	mashuo5	5	0	0	0.0
101	mashuo99@gmail.com	mashuo99	6	0	0	0.0
102	mashuo100@gmail.com	mashuo100	5	0	0	0.0

+ Quick Manage Users

+ Manage Users

Edit Group

Delete Group

Statistics

Create a new Group...

Back...

The Dataset Curation by Team Flyer and 666

Contact

```
--- iruby/hash-with-ivars:ActionController::Parameters
elements:
  controller: groups
  action: index
  ivars:
    :@permitted: false
```

For power admins:

GENETIC DATASET CURATION

HomeTutorialHello, flyer1

Groups

Group Name: TestGroup1

Description: Testing...

Group Level:graduate/undergraduate/:graduate

Group Admin: flyer1

Group Users:

ID	Email	Name	Submission#	Closed Submission	Correct#	Accuracy#
103	flyer1@gmail.com	flyer1	10	0	0	0.0
3	mashuo@gmail.com	mashuo1	5	0	0	0.0
4	mashuo2@gmail.com	mashuo2	9	0	0	0.0
5	mashuo3@gmail.com	mashuo3	4	0	0	0.0
6	mashuo4@gmail.com	mashuo4	5	0	0	0.0
7	mashuo5@gmail.com	mashuo5	5	0	0	0.0
101	mashuo6@gmail.com	mashuo6	5	0	0	0.0
102	mashuo10@gmail.com	mashuo10	5	0	0	0.0

Quick Menu

Manage Us

Edit Group

Delete Gr

Statistics

Group Name: TestGroup3

Description:

Group Level:graduate/undergraduate/:graduate

Group Admin: flyer3

Group Users:

ID	Email	Name	Submission#	Closed Submission	Correct#	Accuracy#
105	flyer3@gmail.com	flyer3	0	0	0	0.0

Quick Menu

Manage Us

Edit Group

Delete Gr

Statistics

Group Name: TestGroup2

Description:

Group Level:graduate/undergraduate/:graduate

Group Admin: mashuo0

Group Users:

ID	Email	Name	Submission#	Closed Submission	Correct#	Accuracy#
2	mashuo0@gmail.com	mashuo0	4	0	0	0.0
3	mashuo1@gmail.com	mashuo1	5	0	0	0.0

Quick Menu

Manage Us

Edit Group

Delete Gr

Statistics

Create a new Group...

Back...

Groups CRUD pages:

Create:

GENETIC DATASET CURATION

HomeTutorialHello, flyer1

Creating a New Group:

Properties:

Users:

Group name:

Group descriptions:

Group level:

graduate

Save

Cancel Changes

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Contact

... /ruby/hash-with-ivars: ActionController::Parameters

elements:

controller: groups

action: new

ivars:

@permitted: false

The right half is reserved for future development.

Update:

GENETIC DATASET CURATION

HomeTutorialHello, flyer1

Editing TestGroup1

Properties:

Users:

Group name:

TestGroup1

Group descriptions:

Testing...

Group level:

graduate

Save

Cancel Changes

The Dataset Curation by Team Flyer and 666

Contact

... /ruby/hash-with-ivars: ActionController::Parameters

elements:

controller: groups

action: edit

id: '1'

ivars:

@permitted: false

Delete:

Add users to group with detailed user information:

GENETIC DATASET CURATION

666 was successfully added.

Add User to Group: TestGroup1

Search Email...

ID	Email	Name	Accuracy#	In Group?	Operate
1	666@gmail.com	666	0.0	Yes	Delete
2	mashuo0@gmail.com	mashuo0	0.0	No	Add
3	mashuo1@gmail.com	mashuo1	0.0	Yes	Delete
4	mashuo2@gmail.com	mashuo2	0.0	Yes	Delete
5	mashuo3@gmail.com	mashuo3	0.0	Yes	Delete
6	mashuo4@gmail.com	mashuo4	0.0	Yes	Delete
7	mashuo5@gmail.com	mashuo5	0.0	Yes	Delete
8	mashuo6@gmail.com	mashuo6	0.0	No	Add
9	mashuo7@gmail.com	mashuo7	0.0	No	Add
10	mashuo8@gmail.com	mashuo8	0.0	No	Add
11	mashuo9@gmail.com	mashuo9	0.0	No	Add
12	mashuo10@gmail.com	mashuo10	0.0	No	Add
13	mashuo11@gmail.com	mashuo11	0.0	No	Add
14	mashuo12@gmail.com	mashuo12	0.0	No	Add
15	mashuo13@gmail.com	mashuo13	1.0	No	Add

Show All

Back

Add users to group simultaneously with concise user information:

GENETIC DATASET CURATION

Home

Tutorial

Hello, 666

Quickly add User to Group: TestGroup1

Users in the group:

Name: mashuo1 Email: mashuo1@gmail.com

☐

Name: mashuo2 Email: mashuo2@gmail.com

☐

Name: mashuo3 Email: mashuo3@gmail.com

☐

Name: mashuo4 Email: mashuo4@gmail.com

☐

Name: mashuo5 Email: mashuo5@gmail.com

☐

Name: mashuo99 Email: mashuo99@gmail.com

☐

Name: mashuo100 Email: mashuo100@gmail.com

☐

Delete selected

Users not in the group:

Name: 666 Email: 666@gmail.com

☐

Name: mashuo0 Email: mashuo0@gmail.com

☐

Name: mashuo6 Email: mashuo6@gmail.com

☐

Name: mashuo7 Email: mashuo7@gmail.com

☐

Name: mashuo8 Email: mashuo8@gmail.com

☐

Name: mashuo9 Email: mashuo9@gmail.com

☐

Name: mashuo10 Email: mashuo10@gmail.com

☐

Name: mashuo11 Email: mashuo11@gmail.com

☐

Name: mashuo12 Email: mashuo12@gmail.com

☐

Name: mashuo13 Email: mashuo13@gmail.com

☐

Name: mashuo14 Email: mashuo14@gmail.com

☐

Name: mashuo15 Email: mashuo15@gmail.com

☐

Name: mashuo16 Email: mashuo16@gmail.com

☐

Name: mashuo17 Email: mashuo17@gmail.com

☐

Name: mashuo18 Email: mashuo18@gmail.com

☐

Name: mashuo19 Email: mashuo19@gmail.com

☐

Name: mashuo20 Email: mashuo20@gmail.com

☐

Promote user to be a group admin (only power admin can do this):

GENETIC DATASET CURATION

Home

Tutorial

Hello, 666

Promote/Demote

Search Email

ID	Email	Name	Accuracy#	Level	Operate
2	mashuo0@gmail.com	mashuo0	0.0	Admin	Demote
3	mashuo1@gmail.com	mashuo1	0.0	User	Promote
4	mashuo2@gmail.com	mashuo2	0.0	User	Promote
5	mashuo3@gmail.com	mashuo3	0.0	User	Promote
6	mashuo4@gmail.com	mashuo4	0.0	User	Promote
7	mashuo5@gmail.com	mashuo5	0.0	User	Promote
8	mashuo6@gmail.com	mashuo6	0.0	User	Promote
9	mashuo7@gmail.com	mashuo7	0.0	User	Promote
10	mashuo8@gmail.com	mashuo8	0.0	User	Promote
11	mashuo9@gmail.com	mashuo9	0.0	User	Promote
12	mashuo10@gmail.com	mashuo10	0.0	User	Promote
13	mashuo11@gmail.com	mashuo11	0.0	User	Promote
14	mashuo12@gmail.com	mashuo12	0.0	User	Promote
15	mashuo13@gmail.com	mashuo13	1.0	User	Promote

Show All

Previous

1

2

3

4

5

6

7

Next

The Dataset Curation by Team Flier and 666

Content

For now, basic functions are achieved.

## TDD test

### Group Model test:

```
describe Group do
  #Test function .get_users
  describe "finding users of the group" do
    fixtures :users
    fixtures :groups
    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
    #Happy Path
    it "returns the group users if there are users found." do
      @grp1=Group.find_by_id(1)
      @has_user = false
      @grp1.get_users.each do |user|
        #ActiveRecord::Associations::CollectionProxy
        user.groups.to_a.each do |grp|
          #Test if all the returned user's group name is "G1"
          #which is desired.
          if(grp.name == "G1")
            @has_user = true
          else
            @has_user = false
          end
        end
      end
      expect(@has_user).to eq(true)
    end
  end
  #Sad Path
  it "returns empty collection set if no user in the group" do
    @grp4=Group.find_by_id(4)
    expect(@grp4.get_users.count).to eq(0)
  end
end

#Test function .get_admins
describe "finding admins of the group" do
  fixtures :users
  fixtures :groups
  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
  #Happy Path
  it "returns the group admins if there are such admins. For now,
  we assume there's only one group_admin in each group." do
    @grp1=Group.find_by_id(1)
    @has_user = false
    expect(@grp1.get_admins.count).to eq(1)
    expect(@grp1.get_admins.first).to eq(User.find_by_id(@grp1.admin_uid).name)
    #ActiveRecord::Associations::CollectionProxy
  end
  #Sad Path
  it "returns empty collection set if no such admin in the group" do
    @grp4=Group.find_by_id(4)
    expect(@grp4.get_admins.count).to eq(0)
  end
end
```

Group Controller test:

```
#Test user-control mechanism
describe "take control of user's identity " do
  fixtures :users
  fixtures :groups
  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

  it "has a 200 response status code if user is admin" do
    #Mock the verifying process
    allow_any_instance_of(GroupsHelper).to receive(:admins?).and_return(true)
    get :adduser, :id => 1
    expect(response.status).to eq(200)
  end

  it "rejects and redirect to the root page if user isn't admin" do
    get :adduser, :id => 1
    expect(response.status).to eq(302)
    expect(response).to redirect_to(root_path)
  end

  it "responses to html format" do
    #Mock the verifying process
    allow_any_instance_of(GroupsHelper).to receive(:admins?).and_return(true)
    get :adduser, :id => 1
    expect(response.content_type).to eq "text/html"
  end
end

#Test.index
describe "show all the groups that an admin can manage" 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

  it "representing all groups if it's power admin" do
    log_in(User.find_by_id(4))
    get :index
    #debugger
    expect(assigns(:all_groups).count).to eq(4)
    expect(response).to render_template(:index)
  end

  it "only showing the groups that the group admin is in" do
    log_in(User.find_by_id(1))
    get :index
    expect(assigns(:all_groups).count).to eq(1)
    expect(response).to render_template(:index)
  end
end
```



```

#.new/.create/.destroy/.edit/.update
describe "Admins can create a new group" 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
  it "should have a controller method and have
      a instance variable to handle this request" do
    log_in(User.find_by_id(1))
    get :new
    expect(assigns(:group).nil?).to be_falsy
    expect(assigns(:group)).to be_a_new(Group)
    expect(response).to render_template(:new)
  end

  it "should create a new group with correct infos" do
    log_in(User.find_by_id(4))
    post :create, { :group => { :name => "New Group" } }
    expect(assigns(:group).save).to eq(true)
    expect(response).to redirect_to(groups_path)
  end

  it "should reject creating if there's something wrong" do
    log_in(User.find_by_id(4))
    post :create, { :group => { :name => nil } }
    expect(assigns(:group).save).to eq(false)
    expect(response).to render_template(:new)
  end

  it "should delete an existing group with confirmation" do
    log_in(User.find_by_id(4))
    delete :destroy, { :id => 1 }
    expect(Group.count).to eq(3)
  end

  it "should be able to edit existing groups" do
    log_in(User.find_by_id(4))
    get :edit, { :id => 1 }
    expect(assigns(:group)).to eq(Group.find(1))
    expect(response).to render_template(:edit)
  end

  it "should be able to update with correct infos" do
    log_in(User.find_by_id(4))
    post :update, { :id => 1, :group => { :name => "New Group" } }
    expect(Group.find(1).name).to eq("New Group")
    expect(response).to redirect_to(groups_path)
  end

  it "should be redirected to editing page if there's something wrong." do
    log_in(User.find_by_id(4))
    post :update, { :id => 1, :group => { :name => nil } }
    expect(Group.find(1).name).to eq("G1")
    expect(response).to render_template(:edit)
  end
end
end

```

## RSpec Results:

```
hawkzuo:~/workspace/DiseaseDatasetCuration (group_rspects) $ rspec spec/models/group_rspec.rb
....

Finished in 0.27152 seconds (files took 4.52 seconds to load)
4 examples, 0 failures

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

Finished in 0.71061 seconds (files took 5.06 seconds to load)
12 examples, 0 failures

hawkzuo:~/workspace/DiseaseDatasetCuration (group_rspects) $
```

## 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/>