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),

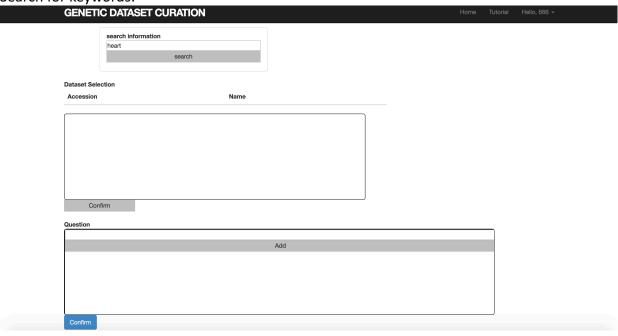
So that I can manage groups(CRUD) and promote/demote users to become a group admin.

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

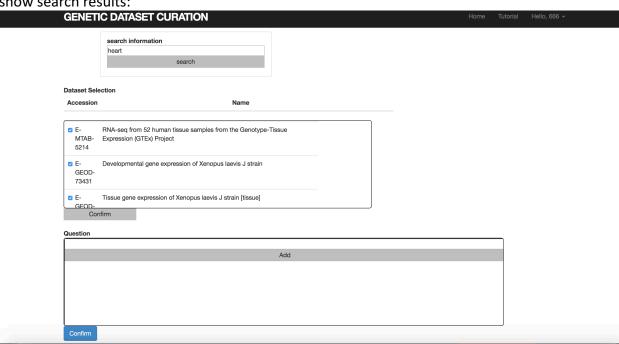
Views

User view for searching dataset:

Search for keywords:

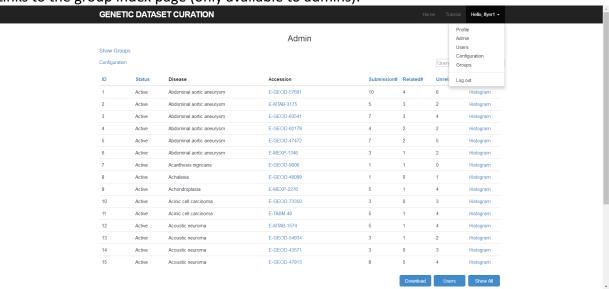


show search results:



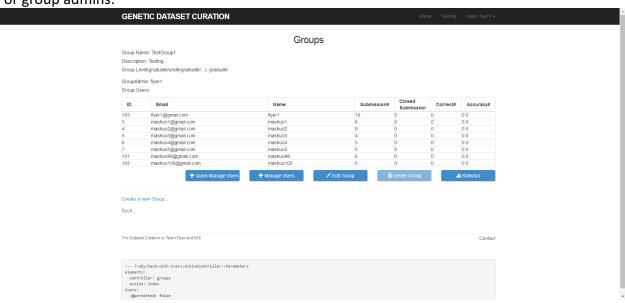
Group Function:

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

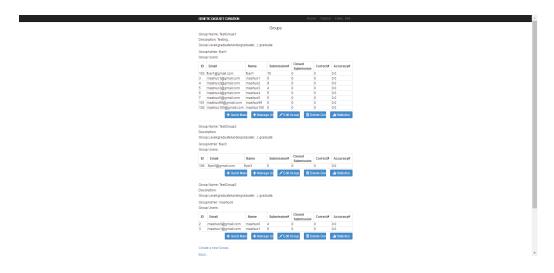


Group index pages:

For group admins:

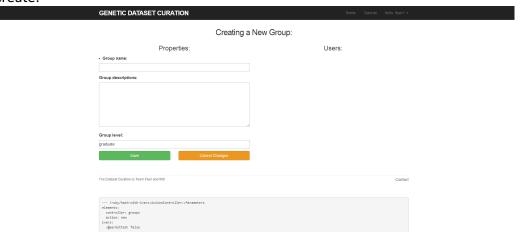


For power admins:

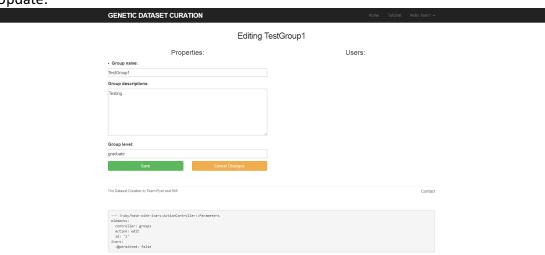


Groups CRUD pages:

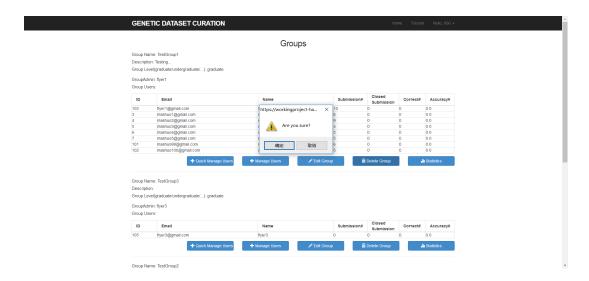
Create:



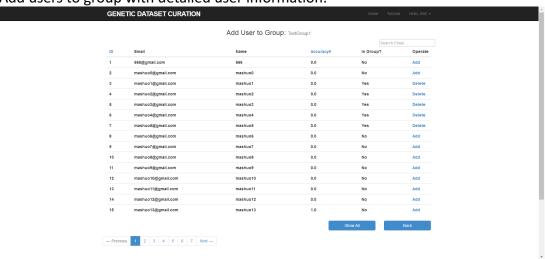
The right half is reserved for future development. Update:

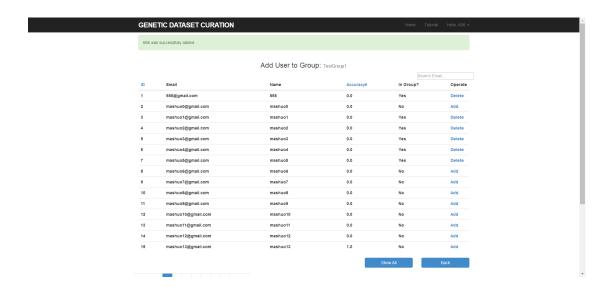


Delete:

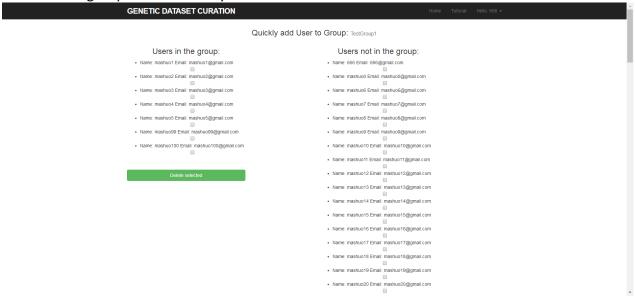


Add users to group with detailed user information:

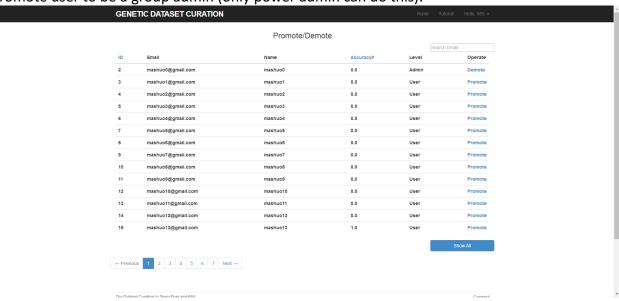




Add users to group simultaneously with concise user information:



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



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)</pre>
      User.find_by_id(2).groups << Group.find_by_id(2)
      User.find_by_id(3).groups << Group.find_by_id(3)
     #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
          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)</pre>
     User.find_by_id(2).groups << Group.find_by_id(2)
    User.find_by_id(3).groups << Group.find_by_id(3)</pre>
   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 : aroups
     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 verifing 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 verifing 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)</pre>
  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
```

```
#.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)
  it "should delete an exisiting 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 exisiting groups" do
    log_in(User.find_by_id(4))
    get :edit,{:id => 1}
    expect(assigns(:group)).to eql(Group.find(1))
    expect(response).to render_template(:edit)
  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 eql("New Group")
    expect(response).to redirect_to(groups_path)
  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 eql("G1")
    expect(response).to render_template(:edit)
  end
end
```

RSpec Results:

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/