Detailed description of implementation steps to create ExpenseReport   
application

1. Create new application:  
   > rails new ExpenseReport
2. Generate UserType scaffold:  
   > rails generate scaffold UserType name:string
3. Change the size and allow nil properties in the migration file (in db\migrate directory):  
    create\_table :user\_types do |t|  
    t.string :name, :limit => 20, :null => false
4. Migrate the data:  
   > rake db:migrate
5. Add new validations (file app\model\user\_type.rb)  
    default\_scope :order => 'name'  
    validates :name, :presence => true, :uniqueness => true
6. Add seed data to the seed file (db\seeds.rb):  
   #UserType  
   UserType.delete\_all  
   UserType.create(:name => 'Vendor Administrator')  
   UserType.create(:name => 'Administrator')  
   UserType.create(:name => 'Regular User')
7. Add seed data to the database:  
   > rake db:seed
8. Comment out the seed data for UserType, since the ids should remain unchanged
9. Now we need fix the tests (file test\functional\user\_types\_controller.rb):  
    setup do  
    @user\_type = user\_types(:one)  
    @update = {  
    :name => 'New User Type'  
    }  
     
    test "should create user\_type" do  
    assert\_difference('UserType.count') do  
    post :create, :user\_type => @update  
    end  
     
    assert\_redirected\_to user\_type\_path(assigns(:user\_type))  
    end  
     
    test "should update user\_type" do  
    put :update, :id => @user\_type.to\_param, :user\_type => @update  
    assert\_redirected\_to user\_type\_path(assigns(:user\_type))  
    end
10. Create git repository:  
    > git init
11. To ignore emacs backup file add the following lines to .GITIGNORE file:  
    # Ignore Emacs backup files  
    \*~
12. and chech-in newly created files  
    > git add .  
    > git commit –m “add UserType”