Detailed description of ‘Company’ table implementation in ExpenseReport   
application

1. Generate Company scaffold:  
   > rails generate scaffold Company name:string tag:string currency\_id:integer contact\_person:string contact\_title:string contact\_phone:string contact\_email:string
2. Change the size and allow nil properties in the migration file (in db\migrate directory):  
    t.string :name, :limit => 30, :null => false  
    t.string :tag, :limit => 15, :null => false  
    t.integer :currency\_id, :null => false  
    t.string :contact\_person :limit => 30, :null => false  
    t.string :contact\_title :limit => 20, :null => false  
    t.string :contact\_phone :limit => 20, :null => false  
    t.string :contact\_email :limit => 40, :null => false
3. Migrate the data:  
   > rake db:migrate
4. Add new validations (file app\model\company.rb)  
    default\_scope :order => ‘name’  
    validates :name, :presence => true, :uniqueness => true  
    validates :tag, :presence => true, :uniqueness => true  
    validates :currency\_id, :presence => true  
    validates :contact\_person, :presence => true  
    validates :contact\_title, :presence => true  
    validates :contact\_phone, :presence => true  
    validates :contact\_email, :presence => true  
     
    belongs\_to :currency
5. Add new validations for currency (file app\model\currency.rb)  
    has\_many :companies
6. Add seed data to the seed file (db\seeds.rb):  
   #Company  
   Company.create(:name => 'Vendor',  
    :tag => 'vendor',  
    :currency\_id => Currency.find\_by\_code("USD").id,  
    :contact\_person => 'Hovik Manvelyan',  
    :contact\_title => 'Programmer',  
    :contact\_phone => '5105730246',  
    :contact\_email => 'hovikman@gmail.com'  
    )
7. Add seed data to the database:  
   > rake db:seed
8. Comment out the seed data for Company, since the ids should remain unchanged for vendor company
9. If currency is referenced in a company then user should not be able to remove the currency (file app\model\currency.rb):  
    before\_destroy :ensure\_not\_referenced\_by\_any\_company  
    private  
    def ensure\_not\_referenced\_by\_any\_company  
    if companies.empty?  
    return true  
    else  
    errors.add(:base, 'There companies referencing this currency')  
    return false  
    end  
    end
10. Now we need fix the tests (file test\functional\user\_types\_controller.rb):  
     setup do  
     @update = {  
     :name => 'New Company',  
     :tag => 'new company',  
     :currency\_id => 1,  
     :contact\_person => 'person',  
     :contact\_title => 'title',  
     :contact\_phone => '1234567890',  
     :contact\_email => 'sample@example.com'  
     }  
     test "should create company" do  
     assert\_difference('Company.count') do  
     post :create, :company => @update  
     end  
     assert\_redirected\_to company\_path(assigns(:company))  
     end  
      
     test "should update company" do  
     put :update, :id => @company.to\_param, :company => @update  
     assert\_redirected\_to company\_path(assigns(:company))  
     end