

Chouette-Social

A cool way to reach major social networks from one place

App URL -> (<https://chouette-social.herokuapp.com>)

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Use Case

Chouette-Social is a little application that I created for the CloudSpokes' *Ruby Social Network Status Updater* contest.

Attached Screen shots show how it works. (Figure 1 – 15)

1. Create a new account on Chouette-Social, simply by sign-on to any of the four social networking sites. After you validated / accepted, you will automatically have a new account on my application. (Figure 1, 2)
2. You have the option of adding more services, as in attaching more social networking services to your account, e.g. Chatter, Facebook, LinkedIn, Twitter. (Figure 5, 6, 7, 8, 9) *Note: Chatter/Salesforce is associated with a specific organization. I am working on letting user directly enter their consumer key/secret pair during the authorization process, allowing my application to be accessible to multiple Salesforce organizations.*
3. Post to any or all of the social networking sites. Checkboxes of providers becomes visible, after you have added that service. As in, if you have authorized Chatter & Twitter, you will only see those two and not LinkedIn and Facebook. (Figure 3)
4. See your posting is successful (Figure 4, 11, 12, 13, 14) *Note: sometimes, there is a lag in the updates of social networking sites. If you don't see your feed posting immediately, wait 30 seconds and refresh the screen. This will refresh your post updates. Also, verify on Chatter per (Figure 15).*
5. When you want to login again, you can use any of the services that you have attached to your account. (Figure 10)

One big advantage of my application is that, by login into one of the accounts, you can post to all services associated with your account. For example, in your browser, you are currently login to Facebook, but not Chatter, Twitter, and LinkedIn. However, with my application, you can post to all 4 sites at once. This is done through the use of refresh tokens.

This app uses several GEMS, *omniauth*, *fb_graph*, *twitter*, *linkedin*, as well as my own gem *ASF-REST-Adapter*. The app shows that the REST protocol is really simple to use for managing all your objects in the cloud DB providers (e.g. FB, Chatter, Twitter, and LinkedIn). The lesson is that if you can leverage off existing data-models, just do it. It is much better to reuse than to reinvent the wheel.

Configuration

Source code is provided in the zip.

To modify the application, or to set up your own copy, do the following:

1. Modify the `$Rails_root/config/environment.rb` and use your own consumer key/secret pairs for each of your application.
2. Modify `$Rails_root/config/environments` folder, there are the `development.rb` and `production.rb` file. Update those two file and point to your callback server.
OmniAuth.config.full_host = <https://your-app.herokuapp.com>
3. Update your settings in Chatter, Facebook, LinkedIn, and Twitter per figure 16, 17, 18, 19
 - a. In general, the callback should be set to <https://your-app.herokuapp.com/auth/:provider/callback>, where :provider is of LinkedIn, forcedotcom, or Twitter.
 - b. Facebook is different, you need to set both the Site URL, and Site Domain, as in Site URL -> <https://heroku.com> and Site Domain -> heroku.com. Note due to a known conflict with Facebook and OmniAuth GEM, OpenSSL should be set to NOT VERIFY. Otherwise, it will complain about `OpenSSL::SSL::SSLError`
 - c. Normally, Heroku runs in production mode -> so update the `production.rb` file. Your local app runs on <https://localhost:3000>, -> so update the `development.rb` file.
4. Deploy to heroku, In your App's root directory, do the following.
 - a. `$ git add .`
 - b. `$ git commit -m 'deploying to heroku'`
 - c. `$ heroku create --stack bamboo-ree-1.8.7 -remote chouette-social <or your app name>`
 - d. `$ git push heroku master`
 - e. `$ git remote add heroku git@heroku.com:chouette-social.git`
 - f. `$ git push heroku master`
 - g. `$ heroku rake db:migrate`
 - h. `$ heroku addons:upgrade logging:expanded`
 - i. `$ heroku addons:add ssl:piggyback`
 - j. `$ heroku logs -tail`
 - k. `$ heroku open` (This starts a web-browser pointing to your application)

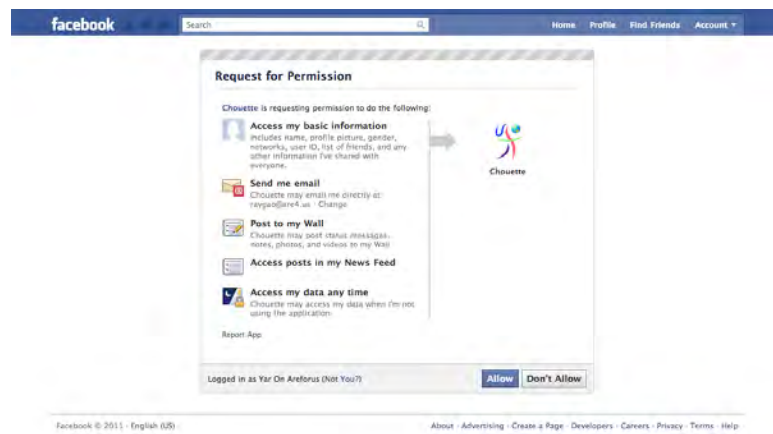


Figure 1 Authorize with Social Network, e.g. Chatter, Facebook, Linked, and Twitter

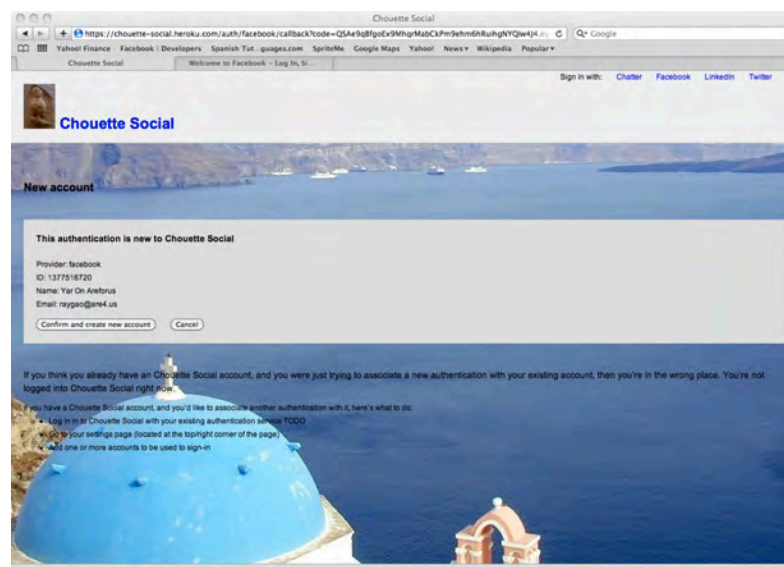


Figure 2 Authorization is Successful - Create an Account

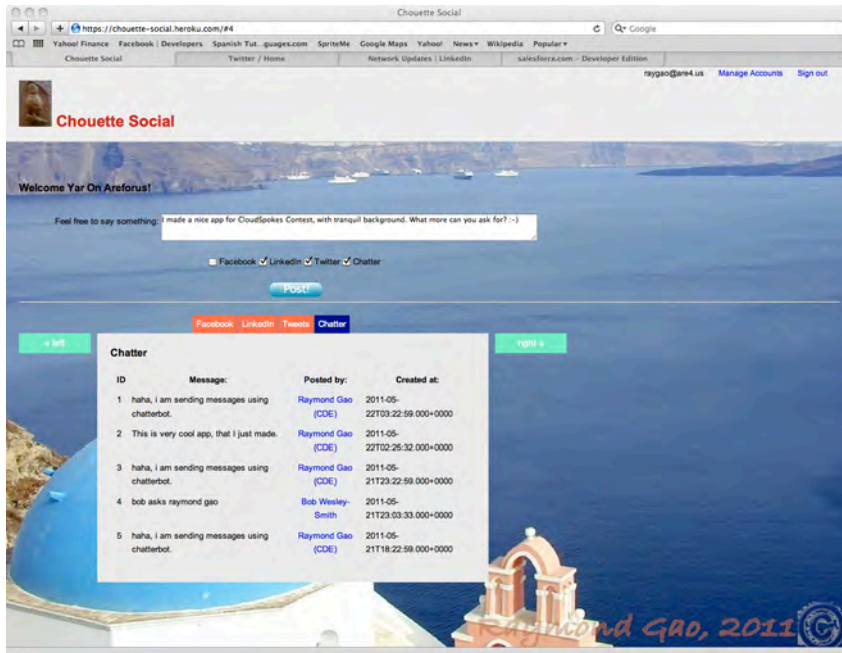


Figure 3 Post to Social Network sites, select which ones you want

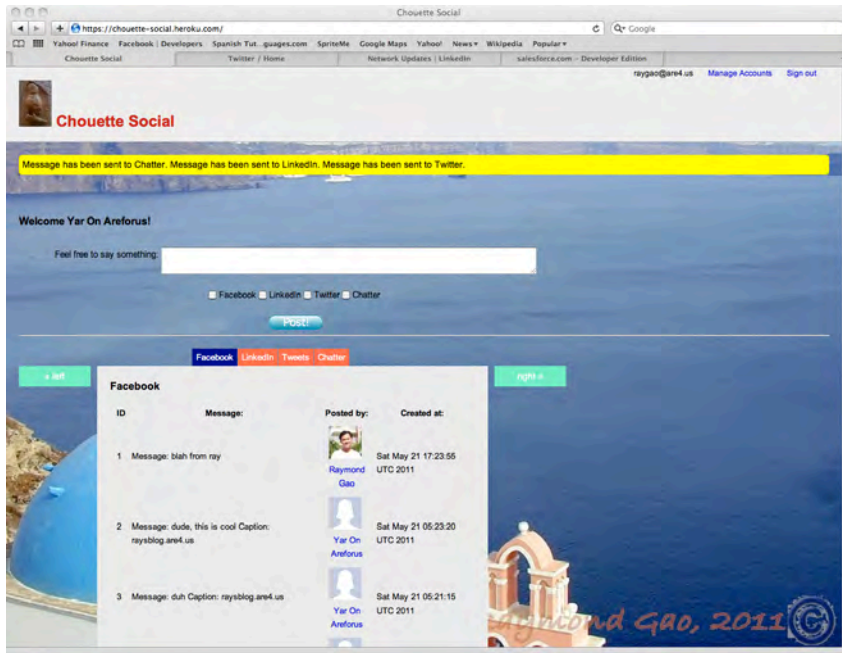


Figure 4 Successfully Posted to Social Network & See Updated Feeds

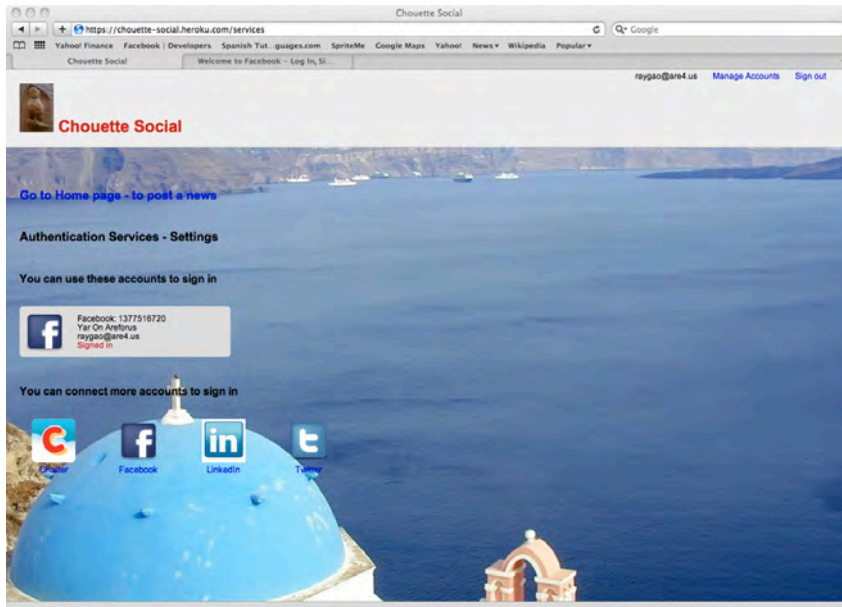


Figure 5 Add more Services (Social Networks Accounts)

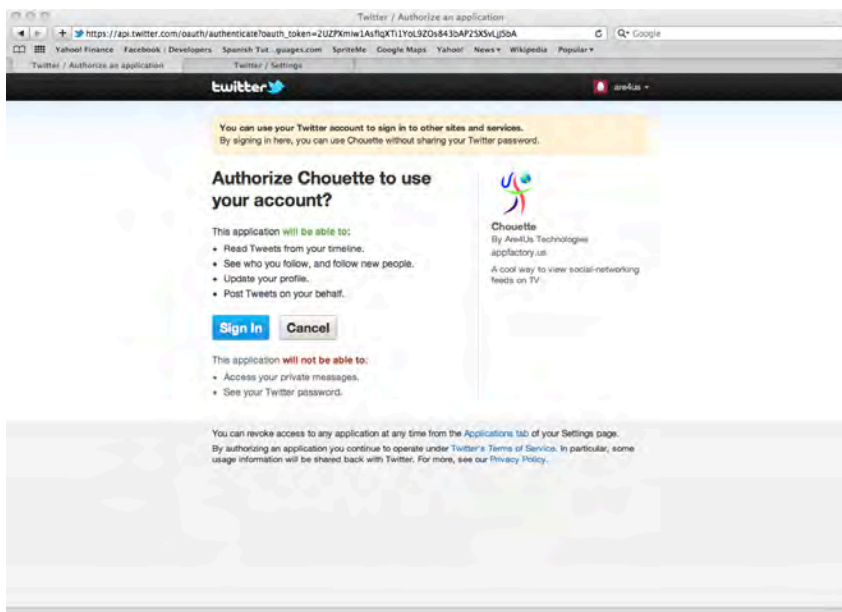


Figure 6 Adding Twitter Account Service

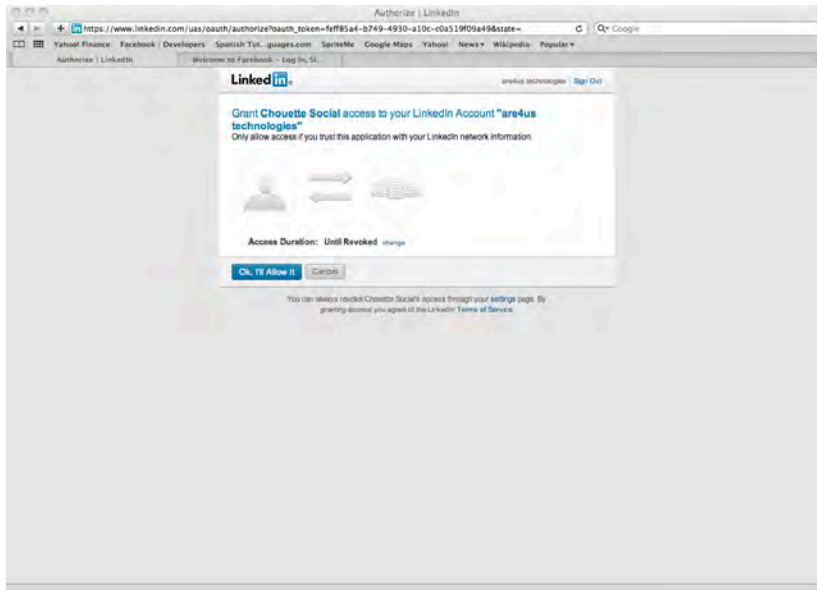


Figure 7 Adding LinkedIn Account

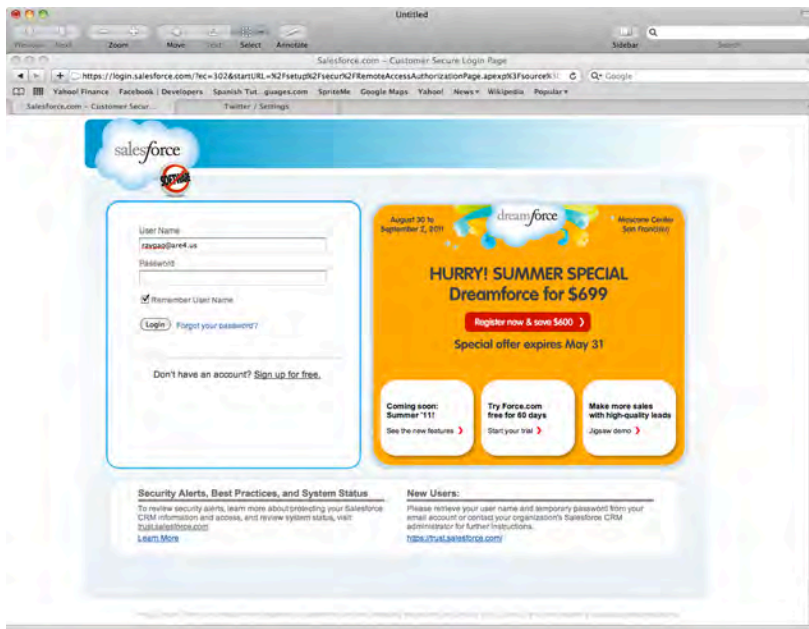


Figure 8 Adding Chatter-Salesforce Account

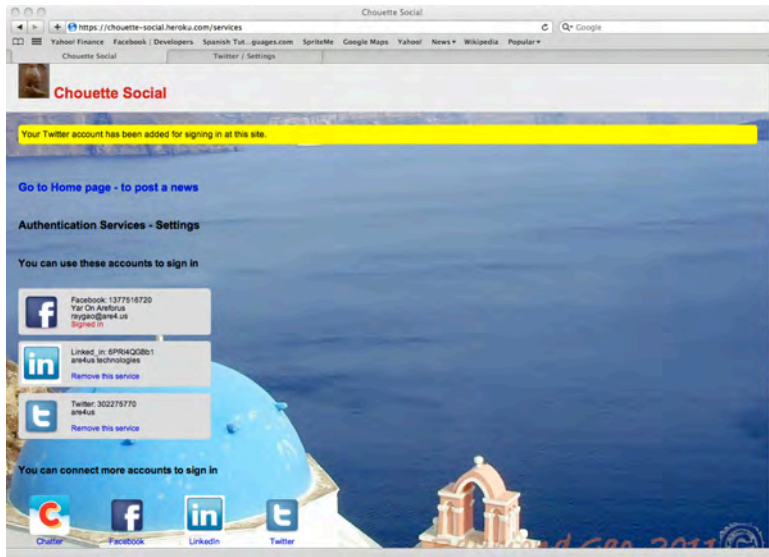


Figure 9 Showing which services social networking sites you have linked to your account.

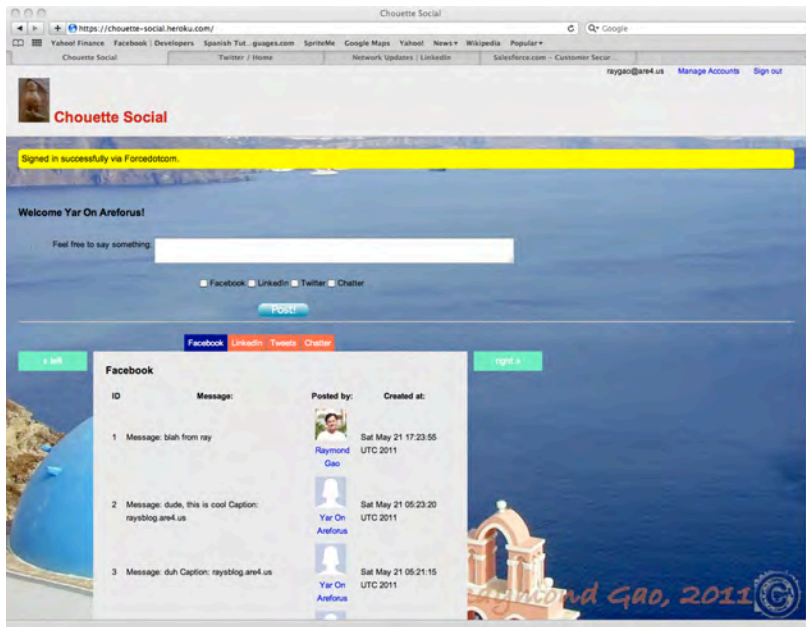


Figure 10 Signing in using any combination of the services that is linked to you account.

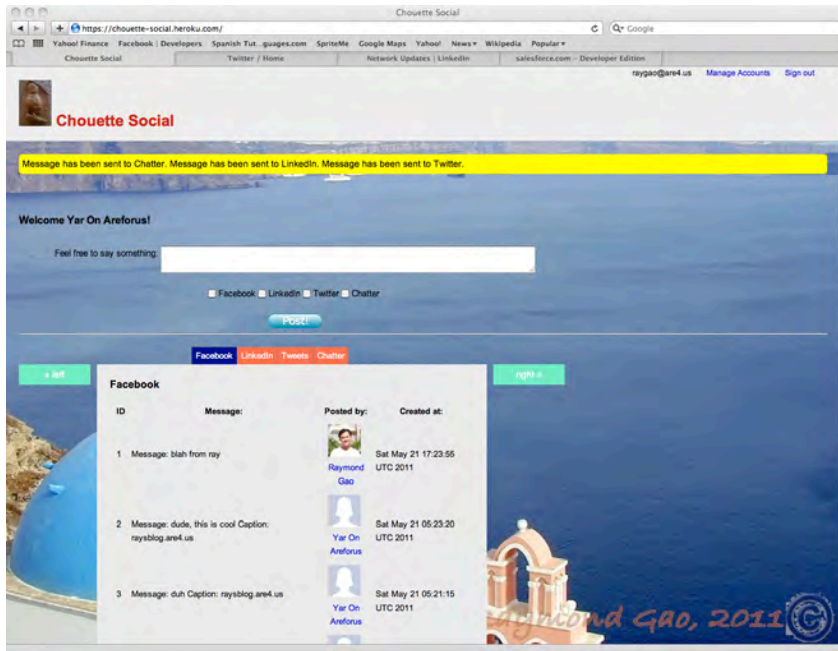


Figure 11 Showing your new post on Facebook

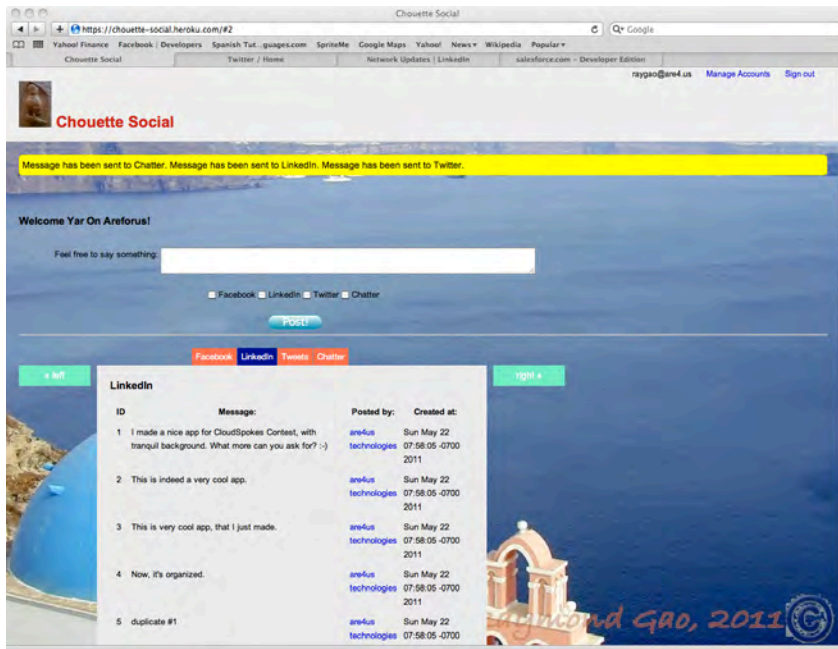


Figure 12 Showing result of your new post on LinkedIn

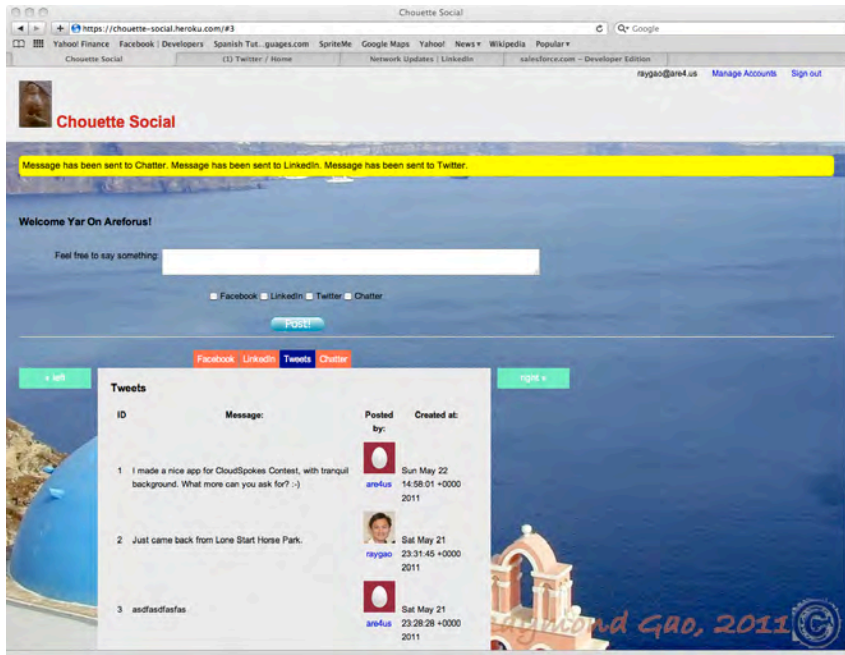


Figure 13 Showing result of your new post on Twitter

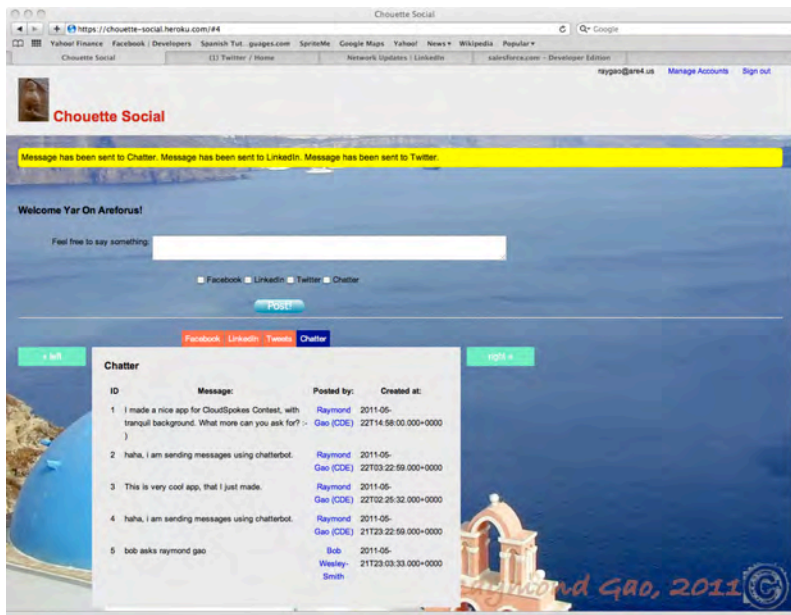


Figure 14 Showing result of your post on Chatter – Salesforce

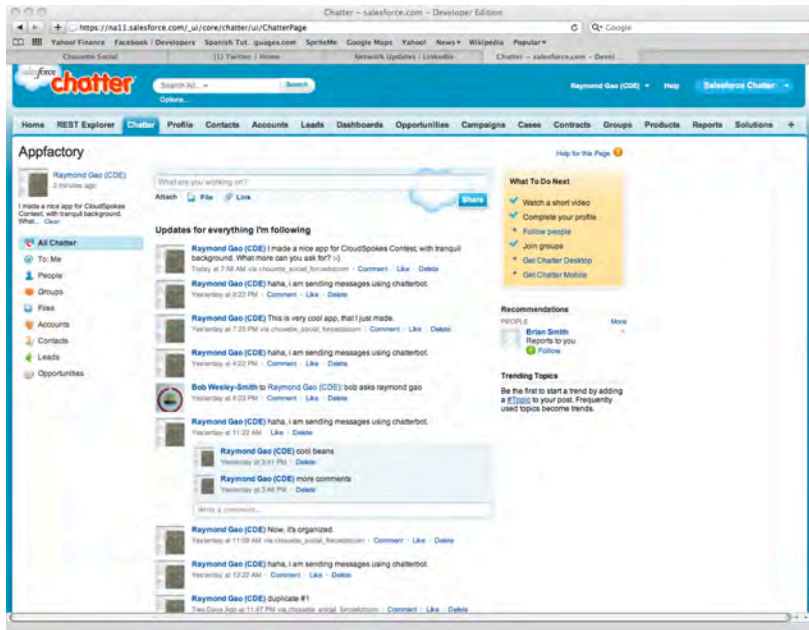


Figure 15 Seeing your new post inside of Chatter – Salesforce

Provider Setup photos

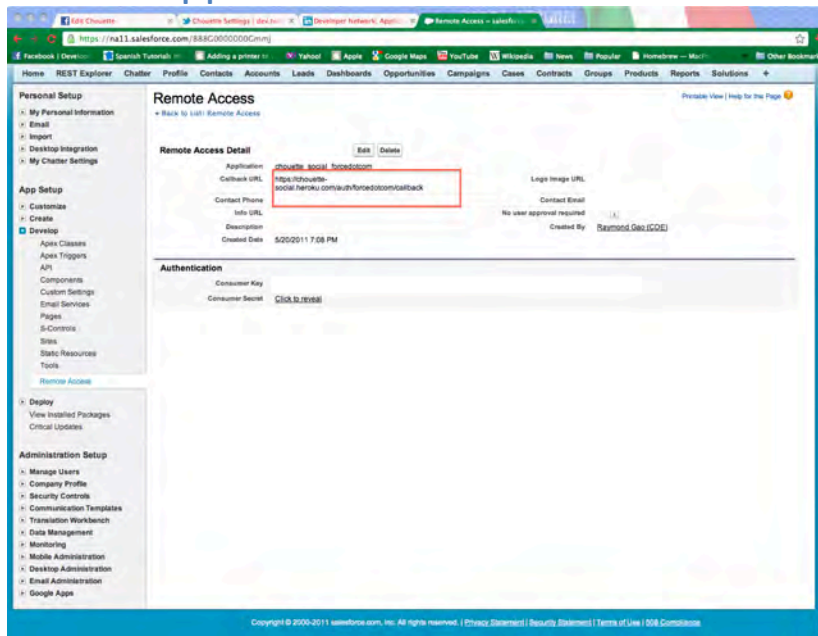


Figure 16 Chatter setup

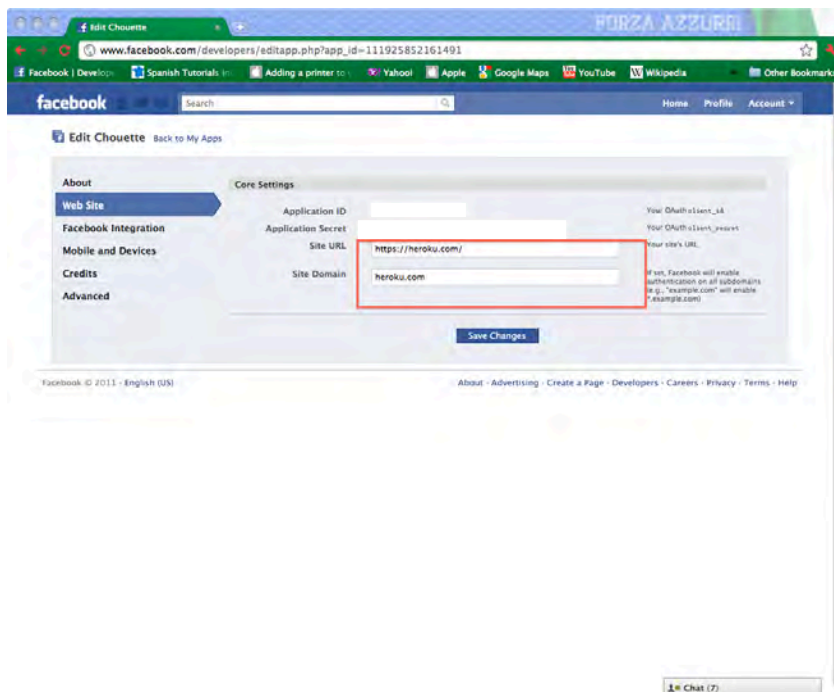


Figure 17 Facebook Setup

The screenshot shows the LinkedIn Developer Setup page for an application named "Chouette". The page is divided into several sections:

- Approval Status:** approved
- Application Developers:** A text input field for the name of the application developer. Below it, a checkbox labeled "Include yourself as a developer for this application" is checked.
- Interface Language:** A dropdown menu with options: English (checked), French, German, Italian, and Portuguese.
- Programming Taste:** A section for selecting programming languages. It includes checkboxes for PHP, C#, C++, Java, and JavaScript. Below this, a text input field for the developer's languages and tools is present.
- Contact Info:** A section for providing contact information. It includes fields for Developer Contact Email, Phone, Support Contact Email, Phone, Business Contact Email, and Phone.
- OAuth User Agreement:** A section for the OAuth user agreement. It includes a text input field for the OAuth Redirect URL, which is filled with "https://chouette-social.herokuapp.com/auth/twitter/callback". Below this, a dropdown menu for the Agreement Language is set to English.

At the bottom of the page, there are buttons for "Save" and "Cancel", and a note that says "You may need additional information".

Figure 18 LinkedIn Setup

The screenshot shows the Twitter Developer Setup page for an application named "Chouette". The page is divided into several sections:

- Application Name:** Chouette
- Description:** A cool way to view social-networking feeds on TV. Below this, a text input field for the OAuth Redirect URL is filled with "https://chouette-social.herokuapp.com/auth/twitter/callback".
- Application Website:** A text input field for the application's home page.
- Organization:** Any4Us Technologies
- Application Type:** A dropdown menu with options: Client, Browser, and Desktop Client. The "Browser" option is selected.
- Callback URL:** A text input field for the callback URL, which is filled with "https://chouette-social.herokuapp.com/auth/twitter/callback".
- Default Access type:** A dropdown menu with options: Read, Write, & Private Message; Read & Write; and Read-only. The "Read, Write, & Private Message" option is selected.
- Application Icon:** A section for uploading the application icon.

At the bottom of the page, there are buttons for "View your application" and "Application details".

Figure 19 Twitter Setup