

Ruby on Rails Workshop

Facebook Application Template 01

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human-computer interaction + design lab.

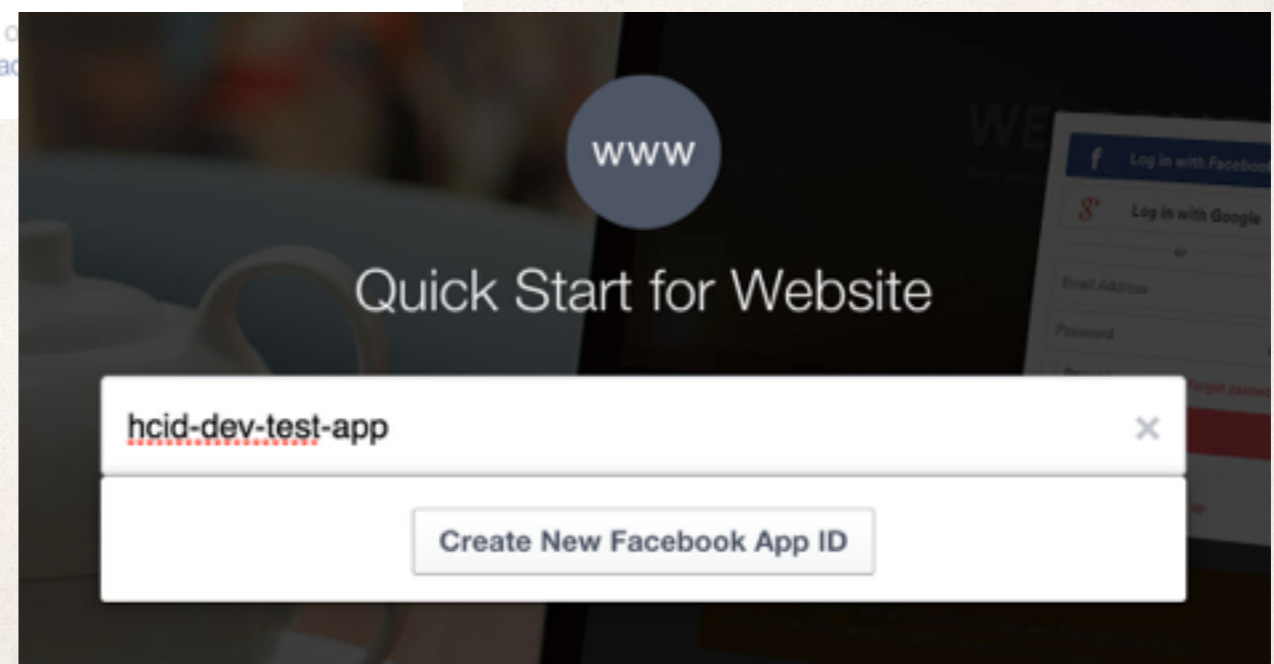
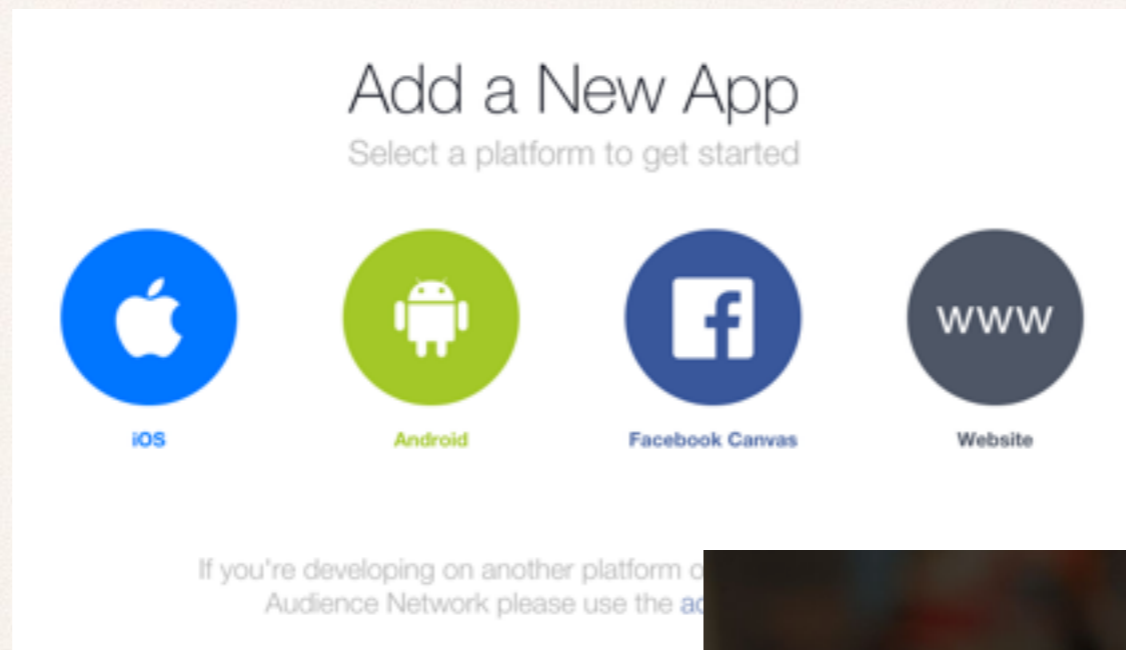
Omniauth 로 Facebook 로그인 모듈 만들기

Application 생성 및 초기 설정

- ◆ 다음과 같이 rails application 생성 후, 첫 화면이 될 main controller 생성
 - ◆ `rails new fb-template`
 - ◆ `rails g controller main index`
- ◆ `config/route.rb` 수정 (다음의 내용 추가)
 - ◆ `root 'main#index'`

Facebook App 등록

- ✦ <https://developers.facebook.com/apps> 에서 facebook application 등록



Facebook App 등록

◆ Configuration

Tell us about your website

Site URL

Mobile Site URL

Omniauth 설정

- ◆ Facebook 로그인을 위해 omniauth gem 을 설치
 - ◆ Gemfile 맨 마지막 줄에 다음을 추가
gem 'omniauth-facebook'
 - ◆ 터미널에서 bundle install 실행

Omniauth 설정

- ◆ /config/initializers/omniauth.rb 파일 생성 후 다음과 같이 수정

```
OmniAuth.config.logger = Rails.logger
```

```
Rails.application.config.middleware.use OmniAuth::Builder do  
  provider :facebook, FACEBOOK_CONFIG['app_id'],  
    FACEBOOK_CONFIG['secret_key']  
end
```

Omniauth 설정

- ✦ /config/initializers/facebook.rb 파일 생성 후 다음과 같이 수정

```
FACEBOOK_CONFIG = YAML.load_file("#{::Rails.root}/config/facebook.yml")  
[::Rails.env]
```

- ✦ /config/facebook.yml 파일 생성 후 다음과 같이 수정 (template
의 facebook.yml.original 이름 바꾼 후 수정해서 사용)

```
development:  
  app_id:  
  secret_key:  
test:  
  app_id:  
  secret_key:  
production:  
  app_id:  
  secret_key:
```



facebook app 생성 시
부여받은 키 입력

Omniauth 설정

- ◆ route 설정 (route.rb)

```
get 'auth/:provider/callback' =>  
  'sessions#create'  
get 'auth/failure' => redirect('/')  
get 'signout' => 'sessions#destroy', as:  
  'signout'
```

Omniauth 설정

- ✦ Session 을 관리하기 위한 컨트롤러 생성
 - ✦ rails g controller sessions
- ✦ SessionsController에 다음의 action 생성
 - ✦ def create
 - user =
 - User.from_omniauth(env["omniauth.auth"])
 - session[:user_id] = user.id
 - redirect_to root_url
 - end
 - ✦ from_omniauth 는 User 모델에서 정의
 - ✦ def destroy
 - session[:user_id] = nil
 - redirect_to root_url
 - end

Omniauth 설정

- ◆ 사용자 정보를 저장하기 위한 db 생성 (fb key 도 같이 저장)
 - ◆ `rails g model user provider uid name oauth_token oauth_expires_at:datetime`
 - ◆ `rake db:migrate`

Omniauth 설정

- ◆ User 모델 수정

- ◆ from_omniauth 함수 작성

```
def self.from_omniauth(auth)
  where(provider: auth.provider, uid: auth.uid).first_or_create do
    |user|
      user.provider = auth.provider
      user.uid = auth.uid
      user.name = auth.info.name
      user.oauth_token = auth.credentials.token
      user.oauth_expires_at = Time.at(auth.credentials.expires_at)
      user.save!
    end
  end
end
```

Omniauth 설정

- ◆ Application Controller와 Application View 수정

- ◆ 현재 로그인 상태인지를 판별하는 메소드를 작성하고 view 파일의 HTML 코드 수정

- ◆ /app/controllers/application_controller.rb

- ◆

```
private
def current_user
  @current_user ||= User.find(session[:user_id]) if session[:user_id]
end
helper_method :current_user
```

- ◆ /app/views/layouts/application.html.erb

- ◆

```
<div id="user_nav">
  <% if current_user %>
    Signed in as <strong><%= current_user.name %></strong>!
    <%= link_to "Sign out", signout_path, id: "sign_out" %>
  <% else %>
    <%= link_to "Sign in with Facebook", "/auth/facebook", id: "sign_in"
  %>
  <% end %>
</div>
```

Omniauth 설정

✦ Login Window 만들기

- ✦ /app/assets/javascripts/facebook.js.coffee.erb 생성하고 다음을 입력

```
jQuery ->
  $('body').prepend('<div id="fb-root"></div>')

$.ajax
  url: "#{window.location.protocol}//connect.facebook.net/en_US/all.js"
  dataType: 'script'
  cache: true

window.fbAsyncInit = ->
  FB.init(appId: '<%= FACEBOOK_CONFIG['app_id'] %>', cookie: true)

$('#sign_in').click (e) ->
  e.preventDefault()
  FB.login (response) ->
    window.location = '/auth/facebook/callback' if response.authResponse

$('#sign_out').click (e) ->
  FB.getLoginStatus (response) ->
    FB.logout() if response.authResponse
  true
```

Graph API Integration

Koala gem 설치

- ✦ Facebook의 Graph API 를 사용하기 위해서는 rails application 에 koala gem 을 설치
 - ✦ Gemfile 마지막 줄에 다음을 입력 하고 bundle install 실행
gem 'koala'

Facebook method

- ✦ User 모델에는 사용자의 access token (oauth_token) 이 저장되어 있음.
- ✦ Facebook API 와 인터랙트할 수 있도록 facebook method를 User 모델에 추가

- ✦ /app/models/user.rb

```
def facebook
  @facebook ||= Koala::Facebook::API.new(oauth_token)
  block_given? ? yield(@facebook) : @facebook
rescue Koala::Facebook::APIError
  logger.info e.to_s
  nil
end
```

Facebook method

- ✦ facebook method를 테스트

- ✦ rails console

```
> u = User.first
```

```
> u.facebook.get_object("me")
```

```
> u.facebook.get_connection("me",  
"friends")
```

```
> u.facebook.put_wall_post("test")
```

```
=> Koala::Facebook::ClientError: type: OAuthException, code: 200,  
message: (#200) The user hasn't authorized the application to perform  
this action [HTTP 403]
```

```
> u.facebook.get_connection("me",  
"permissions")
```

```
=> [{"installed"=>1, "basic_info"=>1, "public_profile"=>1, "email"=>1,  
"user_friends"=>1}]
```

Permission Scope

- ◆ 지금까지 만든 app은 가장 기본적인 permission 만 가지고 있음.

```
=> [{"installed"=>1, "basic_info"=>1, "public_profile"=>1, "email"=>1, "user_friends"=>1}]
```

- ◆ 사용자의 post, comment 등을 가져 오려면 사용자로부터 더 많은 permission 을 받아야 함.

Permission Scope

- ✦ /config/initializers/omniauth.rb 수정

```
OmniAuth.config.logger = Rails.logger
```

```
Rails.application.config.middleware.use OmniAuth::Builder do  
  provider :facebook, FACEBOOK_CONFIG['app_id'],  
    FACEBOOK_CONFIG['secret_key'], scope: "email,  
    publish_stream"  
end
```

Permission Scope

- ✦ /app/assets/javascripts/facebook.js.coffee.erb 수정


```
window.fbAsyncInit = ->
  FB.init(appId: '<%= FACEBOOK_CONFIG['app_id'] %>', cookie: true)

$('#sign_in').click (e) ->
  e.preventDefault()
  FB.login (response) ->
    window.location = '/auth/facebook/callback' if
response.authResponse
  , scope: "email, publish_stream"

$('#sign_out').click (e) ->
  FB.getLoginStatus (response) ->
    FB.logout() if response.authResponse
  true

if $('#sign_out').length > 0
  FB.getLoginStatus (response) ->
    window.location = $('#sign_out').attr('href') if !
response.authResponse
```

Permission Scope



hcid-dev-test-app o

Do you want to make this app and all its live features available to the general public?

YES NO

Submit Items for Approval

Some Facebook integrations require approval before public usage. Before submitting your app for review, please consult our [Platform Policy and Review Guidelines](#).

[Start a Submission](#)

Approved Items ^[?]


LOGIN PERMISSIONS

- email** ^[?]
Provides access to the person's primary email address. This permission is approved by default.
- public_profile** ^[?]
Provides access to a person's basic information, including first name, last name, profile picture, gender and age range. This permission is approved by default.
- user_friends** ^[?]
Provides access to a person's list of friends that also use your app. This permission is approved by default.

Permission Scope

Select the items you want to include in this submission ✕


- read_friendlists
- read_insights
- read_mailbox
- read_page_mailboxes
- read_stream
- rsvp_event
- user_about_me
- user_actions.books

 Including this permission will increase the time it takes to review your submission.

read_mailbox

Provides the ability to read the messages in a person's Facebook Inbox through the [inbox edge](#) and the [thread node](#).

Limited Use

-  This permission is granted to apps building a Facebook-branded client on platforms where Facebook is not already available. For example, Android and iOS apps will not be approved for this permission. In addition, Web, Desktop and TV apps will not be granted this permission.

Cancel Add 1 Item

Permission Scope

- ✦ Permission Scope test

```
> u.facebook.get_connection("me",  
"permissions")
```

```
=> [{"installed"=>1, "basic_info"=>1,  
"public_profile"=>1, "publish_checkins"=>1,  
"status_update"=>1, "photo_upload"=>1,  
"video_upload"=>1, "email"=>1,  
"create_note"=>1, "share_item"=>1,  
"publish_stream"=>1, "publish_actions"=>1,  
"user_friends"=>1}]
```


Adding Test Users

Create Test Users ✕

Number of Test Users to Create

3 ▼

NO **Authorize Test Users for This App?**
If enabled, test users will have this app installed by default

NO **Enable Ticker?**
If enabled, test users will have access to Facebook Ticker

NO **Under 18?**
If enabled, test users will be younger than 18 years old

Select Test User language

English (US) ▼

Sample Methods

◆ User 모델에 다음의 method 추가

```
# sample method - friends count of login user
def friends_count
  facebook { |fb| fb.get_connection("me", "friends").size }
end
```

```
# sample method - feeds of login user
def feeds
  facebook.get_connection("me", "feed")
end
```

```
# sample method - profile of login user
def profile
  facebook.get_object("me")
end
```

Sample Methods

- ✦ Main Controller index 에 다음을 추가

```
def index
  if current_user
    @profile = current_user.profile
    @friends_count = current_user.friends_count
  end
end
```

- ✦ /app/views/main/index.html.erb 에 다음을 추가

```
<% if current_user %>
<p>Welcome, <%= @profile["name"] %></p>
<p>You have <%= @friends_count %> friends.</p>
<% end %>
```

Questions?
