Facebook BlackBerry SDK

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Introduction

This SDK is a sample BlackBerry application which seamlessly integrates with facebook using the facebook Graph API (formerly called "facebook connect"). It is an open-source project under MIT license, and it is completely free to use and/or distribute.

Features

- Connect to facebook using the facebook Graph API.
- Compatible with facebook OAuth 2.0.
- Simple and intuitive to use.

Getting Started

1. Setting up the environment

First of all, you need to get the source files of this SDK.

You can check out the complete BlackBerry project from this SVN location:

https://facebook-bb-sdk.svn.sourceforge.net/svnroot/facebook-bb-sdk

Or you can simply download the source codes in the form of a zip file:

https://sourceforge.net/projects/facebook-bb-sdk/files/

Secondly, make sure that you have a "facebook application" already set up on facebook (http://developers.facebook.com/setup/). Next, you have to create the FacebookContext object with all the facebook credentials like this:

```
private final String REST_URL = "http://api.facebook.com/restserver.php";
private final String GRAPH_URL = "https://graph.facebook.com";
private final String NEXT_URL = "http://www.facebook.com/connect/login_success.html";
private final String APPLICATION_KEY = "f21032d377681e02051e639830b4b678";
private final String APPLICATION_SECRET = "590906fcfea8e348589cf43f06192c2e";
private final String APPLICATION_ID = "317175255300";
ApplicationSettings appSettings = new ApplicationSettings(REST_URL, GRAPH_URL, NEXT_URL, APPLICATION_KEY, APPLICATION_SECRET, APPLICATION_ID);

HttpConnectionFactory connFactory = new HttpConnectionFactory();
FacebookContext fbc = new FacebookContext(appSettings, connFactory);
```

2. Prompting the user to login (if not yet)

There is a handy class called LoginScreen, which can be used to handle this task nicely (See example below), but of course, feel free to implement your own custom login screen if you wish.

Create a CookieManager object to manage the cookies during the login process:

```
private CookieManager cookieManager = new CookieManager();
```

Create a LoginScreen object and register the ActionListener:

```
loginScreen = new LoginScreen(fbc, cookieManager);
loginScreen.addActionListener(this);
```

Display the LoginScreen:

```
loginScreen.login();
pushScreen(loginScreen);
```

3. Retrieving the facebook access token.

After the user logged in, the ActionListener will be called back with an "ACTION_LOGGED_IN" event. Now you have to handle this event by getting the session key and exchanging it for an "access_token" from facebook like this:

4. Requesting extended permissions (optional)

By default, your application can access all general information in a user's profile, including her name, profile picture, gender, and friend list. If your application needs to access other parts of the user's profile that may be private, your application can request extended permissions. There is another class called PermissionScreen to handle this task.

```
permissionScreen = new PermissionScreen(fbc, cookieManager);
permissionScreen.addActionListener(this);
permissionScreen.requestPermissions(new String[] { ExtendedPermission.OFFLINE_ACCESS,
ExtendedPermission.PUBLISH_STREAM });
pushScreen(permissionScreen);
```

After the user granted extended permissions to your application, the ActionListener will be called back again with an "ACTION_GRANTED" event. And now you are done with the whole login process and ready to display the home screen of your BlackBerry application.

5. Interacting with facebook using the Graph API.

Examples:

To retrieve the currently logged in user:

```
User user = fbc.getLoggedInUser();
```

To update the user's status:

```
user.setStatus("Hello world!");
```

To retrieve the user's friends list:

```
User[] friends = user.getFriends();
```

To retrieve user's news feed:

```
Post[] posts = user.getStream();
```

or to limit the number of posts to retrieve to 10 items:

```
Post[] posts = user.getStream(10);
```

To post to user's wall:

```
user.publishStream("This is the message", "http://www.your-url.com/", "Link name", "Link caption", "Link description");
```

To post to the user's friends' walls:

```
User[] friends = user.getFriends();
if (friends.length > 0) {
    friends[0].publishStream("This is the message", " http://www.your-url.com/", "Link name", "Link caption", "Link description");
}
```

To retrieve post's comments:

```
Post[] comments = post.getComments();
```

References

BlackBerry Java Application Development:

http://na.blackberry.com/eng/developers/javaappdev/

Facebook BlackBerry SDK:

https://sourceforge.net/projects/facebook-bb-sdk/

Facebook for Mobile Apps:

http://developers.facebook.com/docs/guides/mobile/

Facebook Authentication:

http://developers.facebook.com/docs/authentication/

Facebook Extended Permissions:

http://developers.facebook.com/docs/authentication/permissions

Facebook Graph API:

http://developers.facebook.com/docs/api