# **Tutorial 2: Show list of Posts on App home screen**

The previous tutorial we have added a new menu item to the main menu of the mobile app. However, nothing happens when tapping on the Posts menu. This tutorial will guide you:

- Create new screens for Post app
- Display a list of posts when tapping on the Posts menu.

### Step 1: Create the primary app Resource

Each app requires a primary *Resource* to control the app's settings. In this case, we will create *PostResource* class as the primary Resource. Create *PostResource* class as the primary Resource. Create *PostResource* class as the primary Resource.

```
<?php
namespace Apps\Posts\Api\Resource;
use Apps\Core_MobileApi\Api\ResourceResourceBase;
class PostResource extends ResourceBase
{
    public $resource_name = "post";
    public $module_name = "post";
    public $title;
    public $description;
    public $text;
}</pre>
```

In the sample code above, we created **PostResource** class extended from **ResourceBase** class. 2 properties **\$resource\_name** and **\$module\_name** have to be unique and different from other apps. All other class's properties are corresponding to database fields of Posts object

### Step 2: Implement resource API service

In Service folder, create PostApi class what is extended from AbstractResourceApi class and implements MobileAppSettingInterface interface.

At this time, we will implement two main methods of PostApi class

- Method PostApi::findAll() is to get all posts.
- Two method PostApi::getAppSetting() and PostApi::getScreenSetting() are to register settings of the Post app to the Native Mobile App. Minimal code show as below:

#### PostApi.php

```
<?php
namespace Apps\Posts\Api\Service;
use Apps\Core_MobileApi\Adapter\MobileApp\MobileApp;
use Apps\Core_MobileApi\Adapter\MobileApp\MobileAppSettingInterface;
use Apps\Core_MobileApi\Api\AbstractResourceApi;
use Apps\Posts\Api\Resource\PostResource;
class PostApi extends AbstractResourceApi implements MobileAppSettingInterface
       public function findAll($params = [])
                $posts = [
                        new PostResource([
                                'post_id' => 1,
                                'title' => "Post's title example",
                                'description' => "Post's description example",
                                'text' => "Post's description example"
                        ])
                ];
                return $this->success($posts);
        }
       public function getAppSetting($param)
                $app = new MobileApp('post' ,[
                        'title'=> 'Posts',
                        'home_view'=>'menu',
                        'main_resource'=> new PostResource([])
                ]);
                return $app;
        }
       public function getScreenSetting($param)
                $screenSetting = new ScreenSetting('post', [
            'name' => 'posts'
        ]);
                $resourceName = PostResource::populate([])->getResourceName();
                $screenSetting->addSetting($resourceName, ScreenSetting::MODULE_HOME);
                $screenSetting->addSetting($resourceName, ScreenSetting::MODULE_LISTING);
                $screenSetting->addSetting($resourceName, ScreenSetting::MODULE_DETAIL);
                return $screenSetting;
        }
/* Keep other methods empty for implementation later */
```

We have finished implementing two primary classes of Posts app. Now we need to register Posts app to the Phpfox system

## Step 3: Register Post App to Phpfox System

Create new *hooks mobile\_api\_routing\_registration.php* in hooks folder with the following code

mobile\_api\_routing\_registration.php

```
<?php
/**
Define RestAPI services
*/
$this->apiNames['mobile.post_api'] = \Apps\Posts\Api\Service\PostApi::class;
/**
Register Resource Name, This help auto generate routing for the resource
Note: resource name must be mapped correctly to resource api
*/
$this->resourceNames['post'] = 'mobile.post_api';
```

# Register PostApi service in start.php of the Posts app PostApi.php

## Step 4: Test the integration

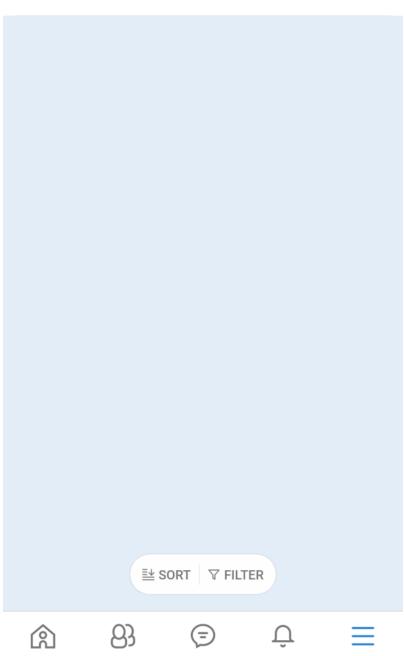
A new app screen on the mobile app was registered and connected with the **Posts** menu after all steps above are completed. The new app screen called main Post's app screen, and it combines with API function to get data of all posts via RESTful API and show results on the screen

Now, you can clear cache in AdminCP and re-open the Native Mobile App, click on the Posts menu item to see how it works.



# Post's title example

Post's description example



Let's review the source structure of Posts app

We put all source code to implement API integration in the Api folder

