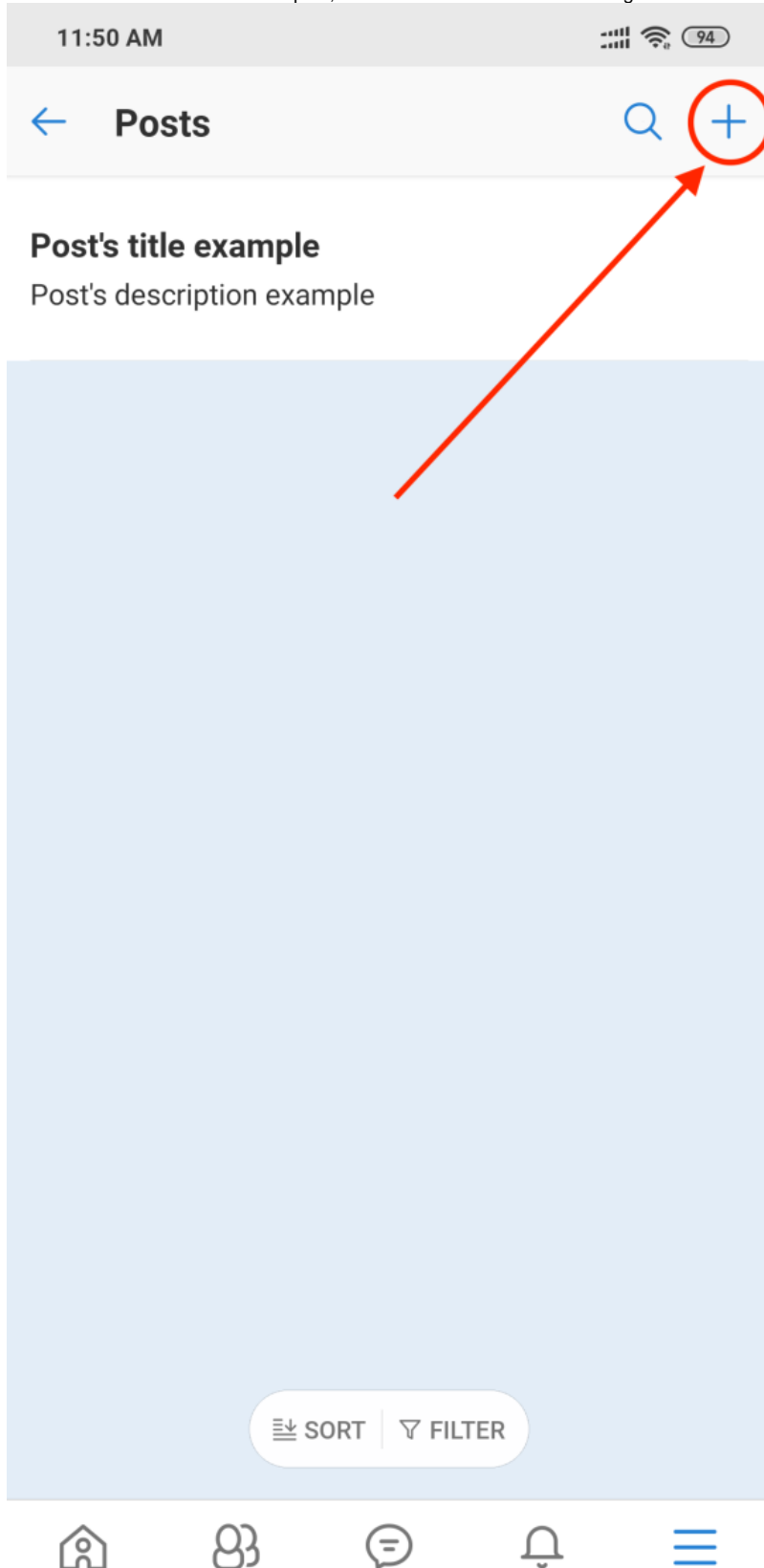


Tutorial 3: Implement Add new button and Create Post form

In order for users to create a new post, we need to add a button and navigate a user to the Create form.



11:50 AM

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Add

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Title *

Fill title for post

Content *

Add content to post

Step 1: Add a button to the app's home screen

Extends the **PostApi::getAppSetting** method in the previous tutorial as follows
PostApi.php

```

/**
@param $param
@return MobileApp
*/
public function getAppSetting($param)
{
    $app = new MobileApp('post', [
        'title' => 'Posts',
        'home_view' => 'menu',
        'main_resource' => new PostResource([])
    ]);
    // Add create post button on App's home screen
    $app->addSetting('home.header_buttons', [
        'post' => [
            [
                'icon' => 'plus',
                'action' => Screen::ACTION_ADD,
                'params' => [
                    'resource_name' => 'post',
                    'module_name' => 'post'
                ]
            ]
        ]
    ]);
    return $app;
}

```

Step 2: Create the creation form

Native Mobile App allows creating forms via API. The form API returns the structure of a form in JSON and base on the structure Mobile App automatic create a screen with form, fields and drive submit action.

The **GeneralForm** class as a *base class* helps build forms and handle submission, validation... You can create a Post form as following code **PostForm.php**

```

<?php
namespace Apps\Posts\Api\Form;
use Apps\Core_MobileApi\Api\Form\GeneralForm;
use Apps\Core_MobileApi\Api\Form\Type\SubmitType;
use Apps\Core_MobileApi\Api\Form\Type\TextareaType;
use Apps\Core_MobileApi\Api\Form\Type\TextType;
use Apps\Core_MobileApi\Api\Form\Validator\StringLengthValidator;
class PostForm extends GeneralForm
{
    /**
    Override build form to generate form
    @return mixed
    @internal param array $data
    */
    public function buildForm()
    {
        $this
        ->addField('title', TextType::class, [
            'label' => 'title',
            'placeholder' => 'fill_title_for_post',
            'required' => true
        ], [new StringLengthValidator(5, 100)])
        ->addField('text', TextareaType::class, [
            'label' => 'content',
            'placeholder' => 'add_content_to_post',
            'required' => true
        ], [new StringLengthValidator(5)])
        ->addField('submit', SubmitType::class, [
            'label' => 'submit',
            'value' => 1
        ]);
    }
}

```

In the above code, we have added 3 fields *Title*, *Text* and *Submit* button to a form. The field type decides which native component will be used to generate the form element on the Mobile app.

The Phpfox Mobile App has a lot of *pre-defined form elements*.

Then, need to implement *Get Form API* of the current resource. Back to **PostApi** class and implement **PostApi::form()** method **PostApi.php**

```
<?php
namespace Apps\Posts\Api\Service;
use Apps\Posts\Api\Form\PostForm;
use Apps\Posts\Api\Resource\PostResource;
class PostApi extends AbstractResourceApi implements MobileAppSettingInterface
{
    /.../
    public function form($params = [])
    {
        $form = $this->createForm(PostForm::class, [
            'title' => "Add a new post",
            'action' => UrlUtility::makeApiUrl('post'),
            'method' => 'post'
        ]);
        return $this->success($form->getFormStructure());
    }
}
```

Now check the *Get Form API* with API URL: "**url/restful_api/mobile/post/form?access_token=token**" and the API response should be returned as below

API response with form's structure

```
{
    "status": "success",
    "data": {
        "title": "Add a new post",
        "description": "",
        "action": "mobile/post",
        "method": "post",
        "fields": {
            "title": {
                "name": "title",
                "component_name": "Text",
                "required": true,
                "value": "",
                "returnKeyType": "next",
                "label": "Title",
                "placeholder": "Fill title for post"
            },
            "text": {
                "name": "text",
                "component_name": "TextArea",
                "required": true,
                "value": "",
                "returnKeyType": "default",
                "label": "Content",
                "placeholder": "Add content to post"
            },
            "submit": {
                "name": "submit",
                "component_name": "Submit",
                "label": "Submit",
                "value": 1
            }
        }
    },
    "message": "",
    "error": null
}
```

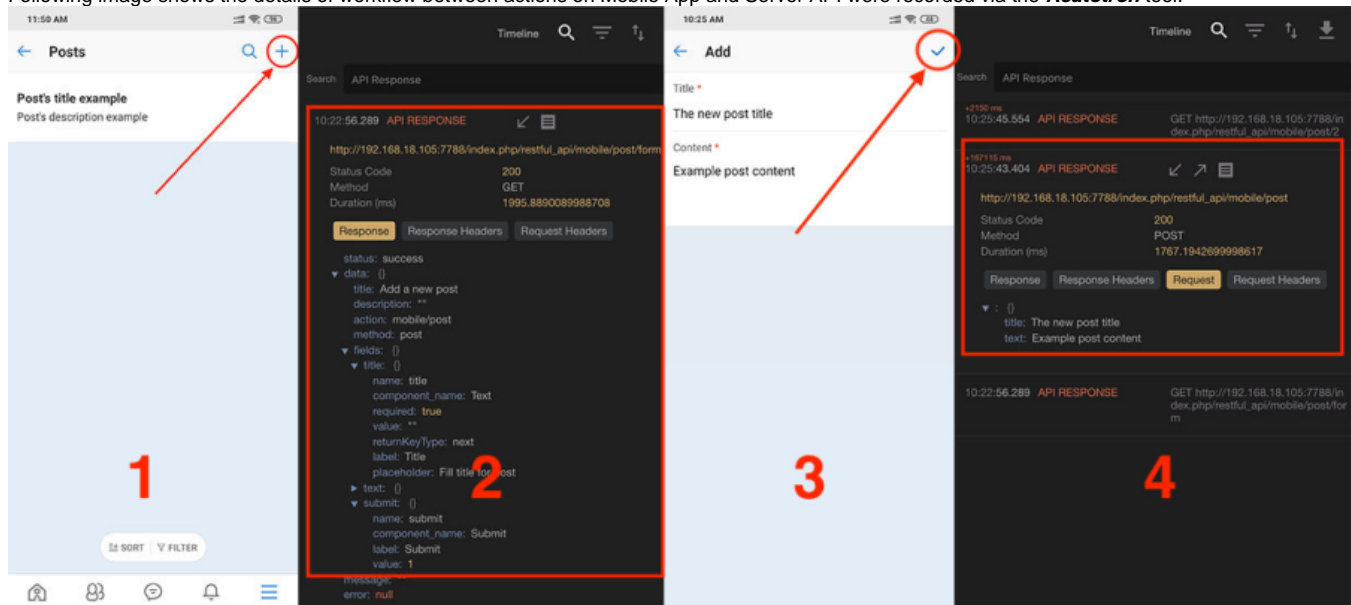
Step 3: Handle form submission

Above form's structure has defined the action and the method, it routes the form's submission to the corresponding API. Then the handling code can be implemented in **PostApi::create()** method.

PostApi.php

```
<?php
/* PostApi.php code */
/**
 * Create new document
 */
@param $params
@return mixed
@throws \Exception
*/
function create($params)
{
    // Create PostForm instance
    $form = $this->createForm(PostForm::class);
    // Get submitted values and validate
    if (($values = $form->getValues()) && $form->isValid()) {
        // TODO: Your business code to save the values as a new post to database
        $newPostId = 2;
        // Return success and needed information to communicate with Native Mobile App
        return $this->success([
            'id' => $newPostId,
            'resource_name' => 'post',
            'module_name' => 'post'
        ]);
    }
    return $this->validationParamsError($form->getInvalidFields());
}
```

Following image shows the details of workflow between actions on Mobile App and Server API were recorded via the **Reatotron** tool.



Step 4: Handling update the post

Similar to the workflow of creating a post, the code of the API form structure can be reused and the API call from the Mobile App will add ID parameter `/post/{form/post_id}`. The Edit Post link will be defined in the action menu of each post.

The handling Update submission can be implemented in **PostApi::update()** method.