

# Add First Block

## Block Component

Block is a component helps developer separate a complex layout to varieties components in re-usage way. Each block contains its own logic and template.

### Create your first block

Create php class **RecentItems** under directory **./PF.Site/Apps/ToDoList/Block/**

Paste following code

```
<?php

namespace Apps\ToDoList\Block;

// RecentMembers block must be a child of \Phpfox_Components
//
class RecentItems extends \Phpfox_Component
{
    // this method will be invoked by phpfox
    public function process()
    {

        // assign variables to template
        $this->template()
            ->assign([
                'sHeader' => 'Recent Items', // block title
                'aItems' => ['Item 1', 'Item 2', 'Item 3'],
            ]);
        return 'block';
    }
}
```

Create php template file **recent\_items.html.php** under directory **./PF.Site/Apps/ToDoList/Block/**

```
<ul>
{foreach from=$aItems item=item}
<li class="category">
    <p>
        {$item}
    </p>
{/foreach}
</ul>
```

Update **start.php**, paste following code

```
$module->addComponentNames('block', [
    'todo.recent_items' => Block\RecentItems::class,
]);
```

Update **Install.php**, change **setComponent()** and **setComponentBlock()**

```

protected function setComponent()
{
    $this->component = [
        "block" => [
            "recent_items" => "",
        ],
        "controller" => [
            "index" => "todo.index",
        ]
    ];
}

protected function setComponentBlock()
{
    $this->component_block = [
        "Recent Items" => [
            "type_id" => "0",
            "m_connection" => "todo.index",
            "component" => "recent_items",
            "location" => "3",
            "is_active" => "1",
            "ordering" => "1"
        ],
    ];
}

```

Then update your app to apply your modification. ([how to update app configurations](#))  
 Open browser again, see result:

The screenshot shows a web application interface. At the top, there is a blue navigation bar with the following menu items: MEMBERS, PHOTOS, PAGES, MUSIC, EVENTS, GROUPS, QUIZZES, POLLS, FORUM, VIDEOS, ADVERTISE, MARKETPLACE, and TO DO LIST. Below the navigation bar, there are two buttons: 'Browse' and 'Create'. On the right side of the page, there is a green circular button with a white plus sign. The main content area is divided into two sections. The left section is titled 'To Do List' and contains three task entries: 'Admin Task', 'Private Task', and 'Test Task'. Each task entry includes a status (e.g., 'in-complete') and a creation time (e.g., '31 minutes ago'). The right section is titled 'Recent Items' and contains a list of three items: 'Item 1', 'Item 2', and 'Item 3'.

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