Service locator

Instead of manually creating instances of different shared services (application components) we can get them from a special global object, which contains configurations and instances of all components.

A service locator is a global object that contains a list of components or definitions, uniquely identified by an ID, and allow us to retrieve any needed instance by its ID. The locator creates a single instance of the component on-the-fly at the first call and returns a previous instance at the subsequent calls.

In this recipe, we will create a shopping cart component and will write a cart controller for working with it.

Getting ready

Create a new application by using the Composer package manager, as described in the official guide at [http://www.viiframework.com/doc-2.0/guide-start-installation.html](http://www.yiiframework.com/doc-2.0/guide-start-installation.html).

How to do it...

Carry out the following steps to create a shopping cart component:

1. Create a shopping cart component. It will store selected items in a user session:

<?php

namespace app\components; use Yii;

use yii\base\Component;

class ShoppingCart extends Component {

public $sessionKey = 'cart';

private $\_items = [];

public function add($id, $amount)

{

$this->loadItems();

if (array\_key\_exists($id, $this->\_items)) { $this->\_items[$id]['amount'] += $amount;

} else {

$this->\_items[$id] = [

'id' => $id,

'amount' => $amount,

];

}

$this->saveItems();

}

public function remove($id)

{

$this->loadItems();

$this->\_items = array\_diff\_key($this->\_items, [$id => []]); $this->saveItems();

} public function clear()