Creating modules

If you have created a complex application part and want to use it with some degree of customization in your next project, most probably you need to create a module. In this recipe, we will see how to create an application log view module.

Getting ready

Create a new yii2-app-basic application using the composer, as described in the official guide at <http://www.yiiframework.com/doc-2.0/guide-start-installation.html>.

How to do it...

Let’s do some planning first.

In yii2-app-basic with default configuration, all log entries are stored in the runtime/logs/app. log file. We can extract all messages from this file with help of regular expressions and display them on the GridView widget. Besides, we must allow the user to configure the path to the custom log file.

Carry out the following steps:

1. Create the modules/log directory and create the Module class with the new file option:

<?php

namespace app\modules\log;

class Module extends \yii\base\Module {

public $file = '@runtime/logs/app.log';

}

1. Create a simple model for transferring rows from the log file:

<?php

namespace app\modules\log\models;

use yii\base\Object;

class LogRow extends Object {

public $time; public $ip; public $userId; public $sessionId; public $level; public $category; public $text;

}

1. Write a log file reader class that will parse file rows, reverse its order, and return array of instances of the LogRow models:

<?php

namespace app\modules\log\services;