**<?php  
namespace** App\Modles;  
**class** ValidateCode  
{  
*//随机因子***private $charset =** 'abcdefghjkmnprstuvwxyzABCDEFGJKMNPRSTUVWXYZ23456789';  
**private $code**;  
**private $codeLen =** 4;  
  
**private $width =** 160;  
**private $heigh =** 38;  
**private $img**;*//图像***private $font**;*//字体***private $fontsize =** 20;  
  
  
**public function** \_\_construct()  
{  
$this**->font =** 'Chowderhead.ttf';  
$this**->img =** imagecreatetruecolor($this**->width**, $this**->heigh**);  
}  
  
*//生成随机码***private function** createCode()  
{  
$\_len **=** strlen($this**->charset**) **-** 1;  
**for** ($i **=** 0; $i **<** $this**->codeLen**; $i**++**) {  
$this**->code .=** $this**->charset**[mt\_rand(0, $\_len)];  
}  
}  
  
*//生成背景***private function** createBg()  
{  
  
$color **=** imagecolorallocate($this**->img**, mt\_rand(157, 255), mt\_rand(157, 255), mt\_rand(157, 255));  
imagefilledrectangle($this**->img**, 0, $this**->heigh**, $this**->width**, 0, $color);  
  
}  
  
*//生成文字***private function** createFont()  
{  
$\_x **=** $this**->width /** $this**->codeLen**;  
$\_y **=** $this**->heigh /** 2;  
**for** ($i **=** 0; $i **<** $this**->codeLen**; $i**++**) {  
$color **=** imagecolorallocate($this**->img**, mt\_rand(0, 156), mt\_rand(0, 156), mt\_rand(0, 156));  
imagettftext($this**->img**, $this**->fontsize**, mt\_rand(**-**30, 30), $\_x **\*** $i **+** mt\_rand(3, 5), $\_y **+** mt\_rand(2, 4), $color, $this**->font**, $this**->code**[$i]);  
}  
}  
  
*//生成线条，雪花***private function** createLine()  
{  
**for** ($i **=** 0; $i **<** 15; $i**++**) {  
$color **=** imagecolorallocate($this**->img**, mt\_rand(0, 156), mt\_rand(0, 156), mt\_rand(0, 156));  
imageline($this**->img**, mt\_rand(0, $this**->width**), mt\_rand(0, $this**->heigh**), mt\_rand(0, $this**->width**), mt\_rand(0, $this**->heigh**), $color);  
}  
**for** ($i **=** 0; $i **<** 150; $i**++**) {  
$color **=** imagecolorallocate($this**->img**, mt\_rand(200, 255), mt\_rand(200, 255), mt\_rand(200, 255));  
imagestring($this**->img**, mt\_rand(1, 5), mt\_rand(0, $this**->width**), mt\_rand(0, $this**->heigh**), '#', $color);  
}  
}  
  
*//输出图像***private function** outPut()  
{  
header('Content-Type: image/png');  
imagepng($this**->img**);  
imagedestroy($this**->img**);  
}  
  
*//对外生成***public function** doImg()  
{  
  
$this**->**createBg(); *//1.创建验证码背景*$this**->**createCode(); *//2.生成随机码*$this**->**createLine(); *//3.生成线条和雪花*$this**->**createFont(); *//4.生成文字*$this**->**outPut(); *//5.输出验证码图像*}  
  
*//获取验证码***public function** getCode()  
{  
**return** strtolower($this**->code**);  
}  
  
}