МИНИСТЕРСТВО ОБРАЗОВАНИЯ И НАУКИ РОССИЙСКОЙ ФЕДЕРАЦИИ

Федерально автономное образовательное учреждение высшего образования

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курс 3 группа ИС/б-31-о

09.03.02 Информационные системы и технологии (уровень бакалавриата)

ОТЧЕТ

по лабораторной работе №5

по дисциплине «Веб-технологии»

на тему «Программирование на стороне сервера с использованием языка PHP. Исследование возможностей обработки данных HTML-форм.»

Отметка о зачете \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

(дата)

Руководитель практикума

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1. ЦЕЛЬ РАБОТЫ

Изучить основы синтаксиса PHP, приобрести практические навыки использования управляющих конструкций, операторов и функций в PHP для генерации HTML-кода и обработки HTML-форм. Приобрести практические навыки обработки строк в PHP-скриптах, а также работы с файлами для хранения данных на стороне сервера. Приобрести практические навыки создания PHP-скриптов с использованием парадигм ООП.

1. ПОСТАНОВКА ЗАДАЧИ

2.1. Реструктурировать код приложения по принципу MVC паттерна (разделить бизнес логику и отображение). Для этого необходимо составить такую структуру файлов и каталогов:

|  |  |
| --- | --- |
| **Каталог/файл** | **Описание** |
| /my\_site/public/assets/js/ | Каталог содержит все JavaScript файлы приложения |
| /my\_site/public/assets/css/ | Каталог содержит все CSS файлы приложения |
| /my\_site/public/assets/img/ | Каталог содержит все изображения приложения |
| /my\_site/public/index.php | Корневая и единственная точка входа в приложение. |
| /my\_site/app/controllers/ | Содержит PHP классы, которые обрабатывают HTTP запросы |
| /my\_site/app/views/ | Содержит PHP файлы с PHP и HTML кодом. В эту папку переносятся все HTML шаблоны из предыдущих лабораторных работ. Также для шаблонов из предыдущих лабораторных меняется расширение с HTML на PHP. |
| /my\_site/app/core | Содержат классы необходимые для работы приложения |

2.2. Необходимо разработать класс Dispatcher.php и набор правил перенаправления (rewrite rules) для сервера Apache (или Nginx), которые позволят получать доступ к страницам сайта в «человекоподобном формате». Например:

my\_site/user/photos/ - страница «Фотоальбом»

my\_site/user/hobby/ - страница «Мои интересы»

и т.д.

Для реализации правил перенаправления на стороне сервера необходимо воспользоваться онлайн документацией. Таким образом, цикл работы PHP приложения будет иметь вид:

* + Запрос my\_site/user/photos/
  + Сервер Apache/Nginx вызывает index.php?route=user/photos
  + index.php вызывает класс Dispatcher.php
  + Класс Dispatcher.php вызывает метод класса UsersController::photos
  + Метод UsersController::photos формирует переменные и вызывает файл app/views/users\_photos.php для отображения списка фотографий

Как видно из указанного алгоритма каждое звено выполняет только одну определенную ему роль. Диспетчер – маршрутизация, контроллер – передача данных для отображения, view – отображение HTML.

2.3. Модифицировать страницу «Фотоальбом», реализовав PHP-функцию вывода таблицы, содержащей фото (с использованием операторов циклов). Значения имен файлов фото и подписей к фото предварительно разместить в глобальных массивах *fotos* и *alts*.

2.4. Модифицировать страницу «Мои интересы», реализовав вывод списков с использованием PHP-функции с переменным числом аргументов.

2.5. Реализовать класс FormValidation, реализующий валидацию данных форм, передаваемых на сторону сервера. Рекомендуемая структура класса:

Rules – поле(массив), содержащее набор правил для проверки валидности данных;

Errors – поле(массив), содержащее тексты ошибок возникших при проверке валидности данных;

isNotEmpty(data) – метод проверки является ли значение data не пустым – возвращает сообщение об ошибке, если таковая имеется;

isInteger(data) – метод проверки является ли значение data строковым представлением целого числа – возвращает сообщение об ошибке, если таковая имеется;

isLess(data, value) – метод проверки является ли значение data строковым представлением целого числа и не меньшим, чем value – возвращает сообщение об ошибке, если таковая имеется;

isGreater(data, value) – метод проверки является ли значение data строковым представлением целого числа и не большим, чем value – возвращает сообщение об ошибке, если таковая имеется;

isEmail(data) – метод проверки является ли значение data строковым представлением email – возвращает сообщение об ошибке, если таковая имеется;

SetRule(field\_name, validator\_name) – метод, добавляющий в массив Rules проверку для поля field\_name типа validator\_name;

Validate(post\_array) – метод выполняющий проверку элементов в массиве post\_array, в соответствии с правилами Rules и сохраняющий сообщения об ощибках в поле Errors;

ShowErrors() – метод выводящий все сообщения об ошибках из поля Errors в формате HTML.

2.6. С использованием разработанного класса реализовать валидацию форм «Контакт» и «Тест по дисциплине “…”».

2.7. Реализовать дочерний класс CustomFormValidation от класса FormValidation, дополнив его возможностью выполнения специализированной проверки формы «Тест по дисциплине» на стороне сервера.

2.8. Реализовать дочерний класс ResultsVerification от класса CustomFormValidation, дополнив его возможностью проверки правильности ответов, введенных пользователем на странице "Тест по дисциплине" (реализовать проверку правильности для вопросов с элементами ввода типа RadioButton, ComboBox или однострочный текст) и вывода результатов проверки пользователю.

1. ИСХОДНЫЙ КОД

app/Core/View.php

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| |  |  | | --- | --- | | 1 | <?php | | 2 |  | | 3 | namespace App\Core; | | 4 |  | | 5 | use Xiaoler\Blade\Compilers\*BladeCompiler*; | | 6 | use Xiaoler\Blade\Engines\*CompilerEngine*; | | 7 | use Xiaoler\Blade\*Factory*; | | 8 | use Xiaoler\Blade\*FileViewFinder*; | | 9 |  | | 10 | *class* View | | 11 | { | | 12 |  | | 13 | public static $path = ['app/views']; | | 14 | public static $cache = 'storage/views'; | | 15 | private static $\_\_instance; | | 16 |  | | 17 | private $compiler; | | 18 | private $engine; | | 19 | private $finder; | | 20 | private $factory; | | 21 |  | | 22 | private *function* \_\_construct() | | 23 | { | | 24 | $this->compiler = new *BladeCompiler*(self::$cache); | | 25 |  | | 26 | $this->engine = new *CompilerEngine*($this->compiler); | | 27 | $this->finder = new *FileViewFinder*(self::$path); | | 28 |  | | 29 | $this->factory = new *Factory*($this->engine, $this->finder); | | 30 | } | | 31 |  | | 32 | public static *function* register() | | 33 | { | | 34 | if (!function\_exists('view')) { | | 35 | *function* view(*$view*, *$data* = [], *$\_echo* = true) | | 36 | { | | 37 | return *View*::view($view, $data, $\_echo); | | 38 | } | | 39 | } | | 40 | } | | 41 |  | | 42 | public static *function* view(*$view*, *$data* = [], *$\_echo* = true) | | 43 | { | | 44 | $result = self::instance()->factory->make($view, $data)->render(); | | 45 | if ($\_echo) { | | 46 | echo $result; | | 47 | } | | 48 |  | | 49 | return $result; | | 50 | } | | 51 |  | | 52 | private static *function* instance() | | 53 | { | | 54 | return self::$\_\_instance ?? (self::$\_\_instance = new self); | | 55 | } | | 56 |  | | 57 | public static *function* share(*$key*, *$value* = null) | | 58 | { | | 59 | self::instance()->factory->share($key, $value); | | 60 | } | | 61 |  | | 62 | } | |  |

app/Core/Validation.php

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  | | --- | --- | | 1 | <?php | | 2 |  | | 3 | namespace App\Core; | | 4 |  | | 5 | *class* Validation | | 6 | { | | 7 |  | | 8 | protected $\_rules = []; | | 9 | protected $\_errors = []; | | 10 | protected $\_form = []; | | 11 | protected $\_messages = []; | | 12 | protected $\_aliases = [ | | 13 | 'required' => 'notEmpty', | | 14 | 'integer'  => 'int', | | 15 | 'gt'       => 'greater', | | 16 | 'lt'       => 'less', | | 17 | 'tel'      => 'phone', | | 18 | ]; | | 19 | protected $\_result = ''; | | 20 |  | | 21 | public *function* \_\_construct(*array* *$form*, *array* *$rules* = [], *array* *$messages* = []) | | 22 | { | | 23 | $this->\_form = $form; | | 24 | $this->\_rules = $this->parseRules($rules); | | 25 | $this->\_messages = $messages; | | 26 | } | | 27 |  | | 28 | protected *function* parseRules(*$rules*) | | 29 | { | | 30 | $parsed = []; | | 31 | foreach ($rules as $field => $field\_rules) { | | 32 | if (!is\_array($field\_rules)) { | | 33 | $field\_rules = explode(',', $field\_rules); | | 34 | } | | 35 | $parsed[$field] = $field\_rules; | | 36 | } | | 37 |  | | 38 | return $parsed; | | 39 | } | | 40 |  | | 41 | public static *function* run(*array* *$rules*, *array* *$messages* = []) | | 42 | { | | 43 | $validator = new static($\_REQUEST, $rules, $messages); | | 44 | $validator->validate(); | | 45 |  | | 46 | return $validator; | | 47 | } | | 48 |  | | 49 | public *function* validate() | | 50 | { | | 51 | foreach ($this->\_rules as $field => $field\_rules) { | | 52 | foreach ($field\_rules as $rule) { | | 53 | if (!$this->validateRule($field, $rule)) { | | 54 | if (empty($this->\_errors[$field])) { | | 55 | $this->\_errors[$field] = []; | | 56 | } | | 57 | $this->\_errors[$field][] = $this->errorMessage($field, $rule); | | 58 | } | | 59 | } | | 60 | } | | 61 | if (empty($this->\_errors)) { | | 62 | $this->verify(); | | 63 | } | | 64 |  | | 65 | return $this; | | 66 | } | | 67 |  | | 68 | protected *function* validateRule(*$field*, *$rule*) | | 69 | { | | 70 | $tmp = explode(':', $rule); | | 71 | $value = null; | | 72 | if (count($tmp) > 1) { | | 73 | $rule = $tmp[0]; | | 74 | $value = array\_slice($tmp, 1, count($tmp) - 1); | | 75 | } | | 76 | $method = 'is' . ucfirst($rule); | | 77 | if (!method\_exists($this, $method) && !empty($this->\_aliases[$rule])) { | | 78 | $method = 'is' . ucfirst($this->\_aliases[$rule]); | | 79 | } | | 80 | if (method\_exists($this, $method)) { | | 81 | return call\_user\_func([$this, $method], $field, $value); | | 82 | } | | 83 |  | | 84 | return true; | | 85 | } | | 86 |  | | 87 | protected *function* errorMessage(*$field*, *$rule*) | | 88 | { | | 89 | $tmp = explode(':', $rule); | | 90 | $rule = $tmp[0]; | | 91 | $value = count($tmp) > 1 ? $tmp[1] : null; | | 92 | $message = 'Field ' . $field . ' not valid ' . $rule; | | 93 | if (!empty($this->\_messages[$field])) { | | 94 | if (!is\_array($this->\_messages[$field])) { | | 95 | $message = $this->\_messages[$field]; | | 96 | } else if (!empty($this->\_messages[$field][$rule])) { | | 97 | if (!is\_array($this->\_messages[$field][$rule])) { | | 98 | $message = $this->\_messages[$field][$rule]; | | 99 | } else if (!empty($this->\_messages[$field][$rule][$value])) { | | 100 | $message = $this->\_messages[$field][$rule][$value]; | | 101 | } | | 102 | } | | 103 | } | | 104 |  | | 105 | return $message; | | 106 | } | | 107 |  | | 108 | public *function* verify() | | 109 | { | | 110 |  | | 111 | } | | 112 |  | | 113 | public *function* errors() | | 114 | { | | 115 | return $this->\_errors; | | 116 | } | | 117 |  | | 118 | public *function* result() | | 119 | { | | 120 | return $this->\_result; | | 121 | } | | 122 |  | | 123 | public *function* isNotEmpty(*$field*) | | 124 | { | | 125 | return !empty($this->\_form[$field]); | | 126 | } | | 127 |  | | 128 | public *function* isChecked(*$field*) | | 129 | { | | 130 | return !empty($this->\_form[$field]) && $this->\_form[$field] == true; | | 131 | } | | 132 |  | | 133 | public *function* isEmail(*$field*) | | 134 | { | | 135 | return preg\_match('/.+@.+\..+/', $this->\_form[$field] ?? ''); | | 136 | } | | 137 |  | | 138 | public *function* isLess(*$field*, *$value*) | | 139 | { | | 140 | return $this->isInt($field) && $this->\_form[$field] < $value; | | 141 | } | | 142 |  | | 143 | public *function* isInt(*$field*) | | 144 | { | | 145 | return !empty($this->\_form[$field]) && (is\_int($this->\_form[$field]) || is\_numeric($this->\_form[$field])); | | 146 | } | | 147 |  | | 148 | public *function* isGreater(*$field*, *$value*) | | 149 | { | | 150 | return $this->isInt($field) && $this->\_form[$field] < $value; | | 151 | } | | 152 |  | | 153 | public *function* isWords(*$field*, *$value*) | | 154 | { | | 155 | if (!empty($this->\_form[$field])) { | | 156 | $count = [1, 1]; | | 157 | if (!empty($value)) { | | 158 | $tmp = array\_map(*function* (*$v*) { | | 159 | return (*int*)$v; | | 160 | }, explode('-', $value[0])); | | 161 | if (count($tmp) === 2) { | | 162 | $count = $tmp[0] === $tmp[1] ? | | 163 | $tmp[0] : | | 164 | ($tmp[0] <= $tmp[1] ? | | 165 | [$tmp[0], $tmp[1]] : | | 166 | [$tmp[1], $tmp[0]]); | | 167 | } else if (is\_int($tmp[0])) { | | 168 | $count = [(*int*)$tmp[0], (*int*)$tmp[0]]; | | 169 | } | | 170 | } | | 171 | if ($count[0] < 1) { | | 172 | return false; | | 173 | } | | 174 | $regex = sprintf('/([a-z0-9а-яё]+\s+){%d,%d}[a-z0-9а-яё]+/i', $count[0] - 1, $count[1] - 1); | | 175 |  | | 176 | return preg\_match($regex, $this->\_form[$field]); | | 177 | } | | 178 |  | | 179 | return false; | | 180 | } | | 181 |  | | 182 | public *function* isDate(*$field*, *$value*) | | 183 | { | | 184 | return date\_create\_from\_format(empty($value) ? 'd.m.Y' : $value[0], $this->\_form[$field]) !== false; | | 185 | } | | 186 |  | | 187 | public *function* isPhone(*$field*) | | 188 | { | | 189 | return preg\_match('/^\+?(?:380(\d){9}|7\s\*\(?\d{3}\)?\s\*(?:-?\d){7})$/i', $this->\_form[$field]); | | 190 | } | | 191 |  | | 192 | public *function* setRule(*$field*, *$rule*) | | 193 | { | | 194 | if (empty($this->\_rules[$field])) { | | 195 | $this->\_rules[$field] = []; | | 196 | } | | 197 | $this->\_rules[$field][] = $rule; | | 198 |  | | 199 | return $this; | | 200 | } | | 201 |  | | 202 | } | |  |

app/Core/Router.php

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| |  |  | | --- | --- | | 1 | <?php | | 2 |  | | 3 | namespace App\Core; | | 4 |  | | 5 | *class* Router | | 6 | { | | 7 | private static $route = []; | | 8 |  | | 9 | public static *function* run() | | 10 | { | | 11 | define('\_AJAX', !empty($\_SERVER['HTTP\_X\_REQUESTED\_WITH']) && strtolower($\_SERVER['HTTP\_X\_REQUESTED\_WITH']) == 'xmlhttprequest'); | | 12 |  | | 13 | $uri = $\_SERVER['REQUEST\_URI']; | | 14 | $len = 0; | | 15 | if (!empty($uri)) { | | 16 | foreach (explode('/', $uri) as $item) { | | 17 | if (!empty($item)) { | | 18 | self::$route[] = $item; | | 19 | $len++; | | 20 | } | | 21 | } | | 22 | } | | 23 |  | | 24 | if ($len < 1) { | | 25 | self::$route[] = 'home'; | | 26 | $len++; | | 27 | } | | 28 | if ($len < 2) { | | 29 | self::$route[] = 'index'; | | 30 | $len++; | | 31 | } | | 32 |  | | 33 | $className = sprintf('\\App\\Controller\\%sController', ucfirst(strtolower(self::$route[0]))); | | 34 | $methodName = strtolower(self::$route[1]); | | 35 | $args = array\_slice(self::$route, 2, $len - 2); | | 36 | *View*::share([ | | 37 | '\_controller' => strtolower(self::$route[0]), | | 38 | '\_method'     => strtolower(self::$route[1]), | | 39 | '\_args'       => $args, | | 40 | '\_route'      => implode('/', self::$route), | | 41 | '\_href'       => '/' . (self::$route[0] == 'home' ? '' : self::$route[0]) . ($methodName == 'index' ? '' : '/' . $methodName), | | 42 | ]); | | 43 | try { | | 44 | $reflectionClass = new \*ReflectionClass*($className); | | 45 | $reflectionMethod = $reflectionClass->getMethod($methodName); | | 46 | $obj = null; | | 47 | if (!$reflectionMethod->isStatic()) { | | 48 | $obj = $reflectionClass->newInstance(); | | 49 | *View*::share('\_controller', $obj); | | 50 | } | | 51 | if (!\_AJAX && $reflectionClass->hasProperty('\_ajaxOnly') && in\_array($methodName, $reflectionClass->getProperty('\_ajaxOnly')->getValue($obj))) { | | 52 | *Error*::\_405('AJAX method only'); | | 53 | } | | 54 | $reflectionMethod->invokeArgs($obj, $args); | | 55 | } catch (\*ReflectionException* $e) { | | 56 | *Error*::\_404($e->getMessage()); | | 57 | } | | 58 | } | | 59 | } | |  |

app/Controller/TestController.php

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| |  |  | | --- | --- | | 1 | <?php | | 2 |  | | 3 | namespace App\Controller; | | 4 |  | | 5 | use App\Core\*Controller*; | | 6 | use App\Core\*Form*; | | 7 | use App\Validation\*TestVerification*; | | 8 | use *function* App\Core\view; | | 9 |  | | 10 | *class* TestController extends *Controller* | | 11 | { | | 12 | protected $\_rules = [ | | 13 | 'name'           => 'required,words:2-3', | | 14 | 'group'          => 'required', | | 15 | 'points'         => 'required', | | 16 | 'mark'           => 'required,int', | | 17 | 'interpolation\_' => 'count:1-3', | | 18 | ]; | | 19 | protected $\_messages = [ | | 20 | 'name'           => [ | | 21 | 'required' => 'Поле обязательное', | | 22 | 'words'    => 'Введите в формате: Фамилия Имя Отчество', | | 23 | ], | | 24 | 'group'          => 'Поле обязательное', | | 25 | 'points'         => 'Поле обязательное', | | 26 | 'interpolation\_' => 'Должно быть выбрано 1-3 пунктов', | | 27 | 'mark'           => [ | | 28 | 'required' => 'Поле обязательное', | | 29 | 'int'      => 'Должно быть числом', | | 30 | ], | | 31 | ]; | | 32 |  | | 33 | *function* index() | | 34 | { | | 35 | $form = new *Form*($\_REQUEST, *TestVerification*::run($this->\_rules, $this->\_messages)); | | 36 | view('test.index', compact('form')); | | 37 | } | | 38 |  | | 39 | } | |  |

ВЫВОДЫ

В ходе лабораторной работы были повторены основы синтаксиса PHP. Было разработано Web приложение на PHP на базе методологии MVC. Написаны роутер, валидатор и контроллеры для функционирования системы.