Creating HTML forms in Zend Framework 2 application

Reference : <http://wptrafficanalyzer.in/blog/creating-html-forms-in-zend-framework-2-application/>

**1. Creating a Zend Framework2 Form class in Zf2StudentApp/module/Student/src/Student/Form/StudentForm.php**

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| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40  41  42  43  44  45  46  47  48  49  50  51  52  53  54  55  56  57 | <?php  namespace Student\Form;    use Zend\Form\Form;    class StudentForm extends Form{      public function \_\_construct($name=null){          parent::\_\_construct('student');            // Setting post method for this form          $this->setAttribute("method", "post");            // Adding Hidden element to the form for ID          $this->add(array(              "name"=>"id",              "attributes"=>array(              "type"=>"hidden"              )          ));            // Adding a text element to the form for Name          $this->add(array(              "name"=>"name",              "attributes"=>array(                  "type"=>"text"              ),              "options"=>array(                  "label"=>"Name"              )          ));     // Adding a select element to the form for Department           $this->add(array(              "name"=>"department",              "type"=>"Zend\Form\Element\Select",              "options"=>array(                  "label"=>"Department",                  "options"=>array("Computer Science"=>"Computer Science",                      "Physics"=>"Physics",                      "MBA"=>"MBA"                  ),              )          ));            // Adding a text element to the form for Marks          $this->add(array(              "name"=>"marks",              "attributes"=>array(              "type"=>"text"              ),              "options"=>array(                  "label"=>"Marks"              )          ));            // Adding Submit button to the form          $this->add(array(              "name"=>"submit",              "attributes"=>array(              "type="=>"submit",              "value"=>"Add"              ),          ));      }  } |

**2. Updating the class “StudentTable” in Zf2StudentApp/module/Student/src/Student/Model/StudentTable.php**

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| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32 | <?php  namespace Student\Model;    use Zend\Db\TableGateway\TableGateway;    // A table class for the database table student  class StudentTable{     // This table class does database operations using $tableGateway      protected $tableGateway;        // Service manager injects TableGateway object into this class      public function \_\_construct(TableGateway $tableGateway){          $this->tableGateway = $tableGateway;      }        // Fetching all the student table rows      public function fetchAll(){          $resultSet = $this->tableGateway->select();          return $resultSet;      }        // Inserting User input data via Form Submission      public function saveStudent(Student $student){          $data = array(              'name' => $student->name,              'department'  => $student->department,              'marks'  => $student->marks,          );          $this->tableGateway->insert($data);      }  } |

**3. Adding “addAction” in Zf2StudentApp/module/student/src/Student/Controller/StudentController.php**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40  41  42  43  44  45  46  47  48  49  50  51  52  53  54  55  56  57  58  59  60  61  62  63  64  65  66  67  68  69  70 | <?php  namespace Student\Controller;    use Student\Model\Student;  use Zend\Mvc\Controller\AbstractActionController;  use Zend\View\Model\ViewModel;  use Student\Form\StudentForm;    class StudentController extends AbstractActionController{      protected $studentTable;        public function indexAction(){          // Setting layout for this action          $this->layout("layout/student\_layout");            return new ViewModel(array(              // Fetching data from database              'students'=>$this->getStudentTable()->fetchAll()          ));      }        // Getting StudentTable object to do database operations      public function getStudentTable(){          if(!$this->studentTable){              $sm = $this->getServiceLocator();              $this->studentTable = $sm->get("Student\Model\StudentTable");              return $this->studentTable;          }      }        // Add action      public function addAction(){            // Setting layout for this action          $this->layout("layout/student\_layout");            // Creating html form for student insert          $form = new StudentForm();            // Getting a request object          $request = $this->getRequest();            // If it is a form submission,          // then request will be post          if($request->isPost()){                // Creating a Student object              $student = new Student();                // Setting data on form object from request object              $form->setData($request->getPost());                if($form->isValid()){                    // Setting data on student object from form object                  $student->exchangeArray($form->getData());                    // Inserting student data in the datbase table                  $this->getStudentTable()->saveStudent($student);                    // Redirecting to index action of student controller                  return $this->redirect()->toRoute("student");              }          }            // If it is form request,          // then return the form          return array('form'=>$form);      }  } |

**4. Create new file Zf2StudentApp/module/Student/view/student/student/add.phtml to show the html form**

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| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31 | <?php  // Getting form object from add action of student controller  $form = $this->form;    // Setting the value for 'action' attribute  $form->setAttribute('action', $this->url('student', array('action' => 'add')));    // Ensures state is ready for use  $form->prepare();    // Opening the form tag  echo $this->form()->openTag($form);    // Hidden Element to store id  echo $this->formHidden($form->get('id'));    // TextBox element to input Name of student  echo $this->formRow($form->get('name'));    // TextBox element to input Department  echo $this->formRow($form->get('department'));    // TextBox element to input Marks  echo $this->formRow($form->get('marks'));    // Submit button  echo $this->formSubmit($form->get('submit'));    // Closing the form tag  echo $this->form()->closeTag();  ?> |

**5.  Adding a “Add Student” link in Student List page Zf2StudentApp/module/Student/view/student/student/index.phtml**

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31 | <h1>      Students List  </h1>    <table border="1">      <thead>          <tr>              <td colspan="4" align="right">                  <a href="<?php echo $this->url('student',array('action'=>'add')); ?>">Add Student</a>              </td>          </tr>          <tr>              <th>No</th>              <th>Name</th>              <th>Department</th>              <th>Marks</th>          </tr>      </thead>  <tbody>    <?php    $i=1;  foreach($students as $student){      echo "<tr>";      echo "<td>" . $i++ . "</td>";      echo "<td>" . $student->name . "</td>";      echo "<td>" . $student->department . "</td>";      echo "<td>" . $student->marks . "</td>";      echo "</tr>";  }  ?>    </tbody>  </table> |

**Screenshots of the application**

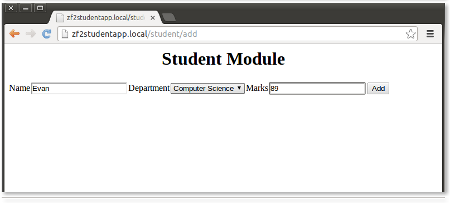
[](http://wptrafficanalyzer.in/blog/wp-content/uploads/2013/02/zend_framework2_student_form_add.png)

Figure 2 : Adding new Student

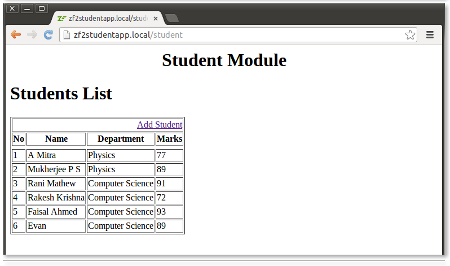
[](http://wptrafficanalyzer.in/blog/wp-content/uploads/2013/02/zend_framework2_student_form_list.png)

Figure 3 : Students List