[StudentExampleController.php](https://github.com/damminhtien/PHP-MVC/blob/master/controller/StudentExampleController.php)

|  |
| --- |
| <?php |
|  | include\_once("../model/StudentExampleModel.php"); |
|  |  |
|  | class StudentController { |
|  | public $student; |
|  |  |
|  | public function \_\_construct(){ |
|  | $this->student = new Student(); |
|  | } |
|  |  |
|  | public function invoke(){ |
|  | if (!isset($\_GET["student"])){ |
|  | // if not get specify student -> get all |
|  | $students = $this->student->getAll(); |
|  | include "../view/student/studentlist.php"; |
|  | } |
|  | else{ |
|  | // if get specify student |
|  | $student = $this->student->find($\_GET["student"]); |
|  | include "../view/student/viewstudent.php"; |
|  | } |
|  | } |
|  | } |
|  | ?>  Model Database |
| <?php |
|  | // lớp kết nối và truy xuất cơ sở dữ liệu |
|  | class Database { |
|  | public static $hostname = "localhost"; |
|  | public static $username = "root"; |
|  | public static $password = ""; |
|  | public static $dbname = null; |
|  | protected $conn = null; |
|  |  |
|  | public function \_\_contruct(){ |
|  | $this->connect(); |
|  | echo "Set default database!"; |
|  | } |
|  |  |
|  | public function connect(){ |
|  | $this->conn = mysqli\_connect(static::$hostname, static::$username, static::$password, static::$dbname) or die ('Connect Error!'); |
|  | mysqli\_query($this->conn, "SET NAMES 'utf8'"); |
|  | } |
|  |  |
|  | public function disconnect(){ |
|  | if($this->conn) |
|  | mysqli\_close($this->conn); |
|  | } |
|  |  |
|  | public static function query($sql){ |
|  | try{ |
|  | $result = mysqli\_query($this->conn, $sql) or die ('Query Error!'); |
|  | return $result; |
|  | catch(mysqli\_sql\_exception $e){ |
|  | return false; |
|  | } |
|  | } |
|  | } |
|  | ?> |

Model Model

|  |
| --- |
| <?php |
|  | // lớp chung cho từng bảng dữ liệu |
|  | class Model extends Database{ |
|  | public $tableName; |
|  | public $properties = array(); |
|  | public $primaryKey; |
|  |  |
|  | public function \_\_contruct($tableName){ |
|  | parent::\_\_construct(); |
|  | $this->tableName = $tableName; |
|  | } |
|  |  |
|  | public getAll(){ |
|  | $sql = "SELECT \* FROM {$tableName}"; |
|  | $result = seft::query($sql); |
|  | return fetch($result); |
|  | } |
|  |  |
|  | public function find($pKeyValue){ |
|  | $pKey = isset($primaryKey) ? $primaryKey : "id"; |
|  | $sql = "SELECT \* FROM {$tableName} WHERE {$pKey} = {$pKeyValue}"; |
|  | $result = seft::query($sql); |
|  | return fetch($result)[0]; |
|  | } |
|  |  |
|  | public function findBy($key, $value){ |
|  | $sql = "SELECT \* FROM {$tableName} WHERE {$key} = {$value}"; |
|  | $result = seft::query($sql); |
|  | return fetch($result); |
|  | } |
|  |  |
|  | public function findLike($key, $value){ |
|  | $sql = "SELECT \* FROM {$tableName} WHERE {$key} = %{$value}%"; |
|  | $result = seft::query($sql); |
|  | return fetch($result); |
|  | } |
|  |  |
|  | public function delete($key, $value){ |
|  | $sql = "DELETE FROM {$tableName} WHERE {$key} = {$value}"; |
|  | result = seft::query($sql); |
|  | if($result) |
|  | echo "Delete successful!"; |
|  | else |
|  | echo "Delete failed!"; |
|  | } |
|  |  |
|  | public function fetch($data){ |
|  | $result = array(); |
|  | if ($data->num\_rows > 0) { |
|  | // output data of each row |
|  | while($row = $data->fetch\_assoc()) { |
|  | $result[count(result)] = $row; |
|  | } |
|  | } else { |
|  | echo "0 results"; |
|  | } |
|  | return $result; |
|  | } |
|  | } |
|  | ?> |

**StudentExampleModel.php**

|  |
| --- |
| <?php |
|  | //examples class |
|  | class Student extends Model{ |
|  | public $id; |
|  | public $name; |
|  | public $class; |
|  |  |
|  | public function \_\_construct(){ |
|  | parent::\_\_contruct(); |
|  | echo "Create object without define properties!"; |
|  | } |
|  |  |
|  | public function \_\_construct($id, $name, $class){ |
|  | $this->id = $id; |
|  | $this->name = $name; |
|  | $this->class = $class; |
|  | $this->primaryKey = isset($primaryKey) ? $primaryKey : "id"; |
|  | $this->tableName = $tableName || get\_class($this); |
|  | } |
|  |  |
|  | public function save(){ |
|  | $this->primaryKey = isset($primaryKey) ? $primaryKey : "id"; |
|  | $this->tableName = isset($tableName) ? $tableName : get\_class($this); |
|  | $sql = "SELECT \* FROM {$tableName} WHERE {$primaryKey} = $this->$primaryKey"; |
|  | $result = seft::query($sql); |
|  | if ($result->num\_rows > 0) { |
|  | $sql = "UPDATE {$tableName} SET id = '{$id}', name = '{$name}', class = '{$class}' WHERE {$primaryKey} = $this->$primaryKey"; |
|  |  |
|  | } else { |
|  | $sql = "INSERT INTO {$tableName} VALUES ('{$id}', '{$name}', '{$class}')"; |
|  | } |
|  | $result = seft::query($sql); |
|  | if($result) |
|  | echo "Save successful!"; |
|  | else |
|  | echo "Save failed"; |
|  | } |
|  | } |
|  | ?> |

[studentlist.php](https://github.com/damminhtien/PHP-MVC/blob/master/views/student/studentlist.php)

|  |
| --- |
| <html> |
|  | <head></head> |
|  | <body> |
|  | <table> |
|  | <tbody><tr><td>Title</td><td>Author</td><td>Description</td></tr></tbody> |
|  | <?php |
|  | foreach ($students as $id => $student) |
|  | { |
|  | echo '<tr><td><a href="index.php?student='.$student->id.'">'.$student->id.'</a></td><td>'.$student->name.'</td><td>'.$student->class.'</td></tr>'; |
|  | } |
|  | ?> |
|  | </table> |
|  | </body> |
|  | </html |

[viewstudent.php](https://github.com/damminhtien/PHP-MVC/blob/master/views/student/viewstudent.php)

|  |  |
| --- | --- |
| <html> |  |
|  |  | <head></head> |
|  |  | <body> |
|  |  | <?php |
|  |  | echo "Id: {$student->id} <br/>"; |
|  |  | echo "Name: {$student->name} <br/>"; |
|  |  | echo "Class: {$student->class} <br/>"; |
|  |  | ?> |
|  |  | </body> |
|  |  | </html> |

**config.php**

|  |
| --- |
| <?php |
|  | // config Database |
|  | const $APP\_NAME = "PHP-MVC"; |
|  |  |
|  | const $AUTHOR = "DMT" |
|  |  |
|  | const $HOST\_NAME = "localhost"; |
|  |  |
|  | const $USER\_NAME = "root"; |
|  |  |
|  | const $PASSWORD = ""; |
|  |  |
|  | const $DBNAME = null; |
|  | ?>  ---------------------------------------------------------------------------------    **index.php** |
|  |  |
| <?php |
|  | include\_once("config.php"); |
|  | include\_once("model/Database.php"); |
|  | include\_once("controller/StudentExampleController.php"); |
|  |  |
|  | Database::$hostname = $HOST\_NAME; |
|  | Database::$username = $USER\_NAME; |
|  | Database::$password = $PASSWORD; |
|  | Database::$dbname = $DBNAME; |
|  |  |
|  | $studentController = new StudentController(); |
|  | $studentController->invoke(); |
|  | ?> |

----------------------------------------------------------------------------------------------------------------------------------

