Backend

Klasse Cookie

```
2
3 <?php
5 class Cookie{
      public static function exists($name){
      return(isset($_COOKIE[$name])) ? true : false;
10
    public static function get($name){
11
    return $_COOKIE[$name];
12
13
14
    public static function put($name, $value, $expiry){
15
      if(setcookie($name, $value, time() + $expiry, '/')) {
16
17
          return true;
18
19
      return false;
20
21
    public static function delete($name){
22
      self::put($name, '', time() - 1);
23
24
25 }
26
27 ?>
```

Klasse Config

```
1 <?php
2 class Config {
    public static function get($path = null){
      if($path){
        $config = $GLOBALS['config'];
        $path = explode('/',$path);
       foreach ($path as $bit){
          if(isset($config[$bit])){
8
             $config = $config[$bit];
9
10
11
       return $config;
12
13
      return false;
14
    }
15
16 }
17 ?>
```

Klasse DB

```
1 <?php
2 class DB {
      private static $_instance = null;
3
      private $_pdo,
4
5
               $_query,
               $_error = false,
6
               $_results,
               s_{count} = 0;
9
      private function __construct(){
11
           try{
               $this->_pdo = new PDO('mysql:host=' .Config::get('mysql/host').
12
      ';dbname=' .Config::get('mysql/db'),Config::get('mysql/username'),Config
      ::get('mysql/password'));
      }catch(PDOException $e){
13
        echo 'Fehler';
14
               die($e->getMessage());
15
16
           }
17
18
    private function __clone() {
19
20
21
    public static function getInstance(){
22
          if(!isset(self::$_instance)){
23
24
               self::$_instance = new self();
25
           return self::$_instance;
27
28
    public function query($sql,$params = array()){
29
      $this->_error = false;
30
      if ($this->_query = $this ->_pdo->prepare($sql)){
31
        x = 1;
32
        // echo 'Success';
33
        if(count($params)){
34
          foreach ($params as $param){
35
               $this->_query->bindValue($x,$param);
36
37
             $x++;
38
          }
39
40
        if($this->_query->execute()){
41
           //echo'Success';
42
           $this->_results = $this->_query->FetchAll(PDO::FETCH_OBJ);
43
           $this->_count = $this->_query->rowCount();
44
                   }else{
45
               $this->_error = true;
46
                   }
47
48
49
      return $this;
50
51
52
    public function action($action,$table,$where = array()){
53
    if(count($where) === 3){
```

```
$operators = array('=','>','<','>=','<=');</pre>
55
56
57
         $field
                    =$where[0];
         $operator
                      =$where[1];
58
         $value
                    =$where[2];
59
         if(in_array($operator,$operators)){
61
           $sql = "{$action} FROM {$table} WHERE {$field} {$operator} ?";
62
           if(!$this->query($sql, array($value))->error()){
63
              return $this;
64
           }
65
         }
66
       }
67
68
       return false;
69
70
     public function get($table,$where){
71
72
       return $this->action('SELECT *', $table, $where);
73
74
     public function delete ($table,$where){
75
       return $this->action('DELETE', $table, $where);
76
77
78
79
     public function insert ($table, $fields = array()){
80
       if(count($fields)){
81
         $keys = array_keys($fields);
         $values = "";
82
83
         x = 1;
84
         foreach($fields as $field){
85
           $values .= '?';
86
           if($x < count($fields)){</pre>
87
              $values .= ', ';
88
89
90
           $x++;
91
92
         $sql = "INSERT INTO {$table} (`" . implode('` , `', $keys) . "`)
       VALUES ({$values})";
94
         if($this->query($sql, $fields)->error()){
95
96
           return true;
97
98
       return false;
99
100
101
     public function update($table, $id, $fields){
102
       $set = '';
       x = 1;
104
105
       foreach($fields as $name => $value){
106
         $set .= "{$name} = ?";
         if($x < count($fields)){</pre>
108
          $set .= ', ';
```

```
110 }
111
        $x++;
112
113
114
       $sql = "UPDATE {$table} SET {$set} WHERE idUser = {$id}";
115
116
       if(!$this->query($sql, $fields)->error()){
117
118
        return true;
119
      return false;
120
121
122
     public function results(){
123
     return $this->_results;
124
125
126
    public function first(){
127
     return $this->results()[0];
128
129
130
    public function error(){
131
     return $this->_error;
132
133
134
    public function count() {
135
136
          return $this->_count;
137
138
139 }
140 ?>
```

Klasse Hash

```
1 <?php
2
3 class Hash{
public static function make($string, $salt = ''){
     return hash('sha256', $string . $salt);
5
6
   public static function salt($length){
8
9
     return random_bytes($length);
10
11
   public static function unique(){
12
13
     return self::make(uniqid());
14
15
16 }
17
18 ?>
```

Klasse Input

```
1 <?php
2 class Input{
    public static function exists($type = 'post'){
4
      switch ($type){
        case 'post':
         return (!empty($_POST)) ? true : false;
       break;
8
       case 'get':
9
         return (!empty($_GET)) ? true : false;
10
       break;
11
12
       default:
         return false;
13
        break;
14
     }
15
    }
16
17
   public static function get ($item){
18
     if(isset ($_POST[$item])){
19
       return $_POST[$item];
20
     } else if(isset($_GET[$item])){
21
       return $_GET[$item];
22
23
24
      return '';
25
    }
26 }
27 ?>
```

Klasse Redirect

```
1 <?php
2 class Redirect{
   public static function to($location= null){
     if($location){
       if(is_numeric($location)){
          switch($location){
            case 404:
              header('HTTP/1.0 404 NOT FOUND');
              include 'includes/errors/404.php';
9
10
              exit();
             break;
11
12
13
14
15
16
        header('Location: ' .$location);
17
        exit();
18
    }
19
20 }
```

Klasse Session

```
1 <?php
2 class Session{
    public static function exists($name){
      return (isset($_SESSION[$name])) ? true : false;
4
    public static function put($name, $value){
     return $_SESSION[$name] = $value;
9
10
    public static function get($name){
11
     return $_SESSION[$name];
12
13
14
    public static function delete($name) {
15
    if(self::exists($name)){
16
17
        unset($_SESSION[$name]);
18
    }
19
20
21
    public static function flash($name, $string = ''){
22
     if(self::exists($name)){
23
        $session= self::get($name);
24
25
        self::delete($name);
26
        return $session;
27
     }else{
        self::put($name, $string);
29
    }
30
31 }
32 ?>
```

Klasse Token

```
1 <?php
2 class Token{
3
    public static function generate(){
4
     return Session::put(Config::get('session/token_name'), md5(uniqid()));
5
6
7
    public static function check($token){
8
      $tokenName = Config::get('session/token_name');
10
      if(Session::exists($tokenName) && $token === Session::get($tokenName)){
11
        Session::delete($tokenName);
12
        return true;
13
      return false;
14
15
16 }
17
18 ?>
```

Klasse User

```
1 <?php
3 class User{
    private $_db,
        $_data,
         $_sessionName,
6
        $_cookieName,
7
         $_isLoggedIn;
8
9
    public function __construct($user = null){
10
       $this->_db = DB::getInstance();
11
12
       $this->_sessionName = Config::get('session/session_name');
13
      $this->_cookieName = Config::get('remember/cookie_name');
14
15
      if(!$user){
16
        if(Session::exists($this->_sessionName)){
17
           $user = Session::get($this->_sessionName);
18
19
          if($this->find($user)){
20
             $this->_isLoggedIn = true;
21
           }else {
22
23
        }
24
      } else{
25
         $this->find($user);
26
27
28
    public function update($fields = array(), $id = null){
29
        $id = $this->data()->idUser;
30
31
32
      if(!$this->_db->update('user',$id, $fields)){
33
         throw new Exception('Ein Fehler ist aufgetreten!');
34
    }
35
36
    public function delete (){
      $id = $this->data()->idUser;
37
      if(!$this->_db->delete('user', array('idUser', '=', $id))){
38
         throw new Exception('Ein Fehler ist aufgetreten!');
39
40
    }
41
42
43
    public function create($fields = array()){
44
      if($this->_db->insert('user', $fields)){
45
46
         throw new Exception('Fehler beim erstellen einer Account.');
47
    }
48
49
    public function find($user = null){
50
      if($user){
51
         $field = (is_numeric($user)) ? 'idUser' : 'Email';
52
         $data = $this->_db->get('user', array($field, '=', $user));
53
54
```

```
if ($data->count()){
55
           $this->_data = $data->first();
56
57
           return true;
58
59
60
61
       return false;
62
63
     public function login ($username = null, $password = null, $remember =
64
       false){
65
       if(!$username && !$password && $this->exists()){
66
         Session::put($this->_sessionName, $this->data()->idUser);
67
68
         $user = $this->find($username);
69
         if($user){
           if($this->data()->Passwort === Hash::make($password, $this->data()
       ->salt)){
             Session ::put($this->_sessionName, $this->data()->idUser);
72
73
             if ($remember) {
74
                $hash = Hash::unique();
75
                $hashCheck = $this->_db->get('user_session', array('user_id', '
76
       =', $this->data()->idUser));
               if(!$hashCheck->count()){
77
                  $this->_db->insert('user_session',array(
78
                    'user_id' => $this->data()->idUser,
 79
                    'hash' => $hash
                  ));
               }else{
82
                  $hash = $hashCheck->first()->hash;
83
84
                Cookie::put($this->_cookieName, $hash, Config::get('remember/
85
       cookie_expiry'));
86
87
88
             return true;
           }
90
         }
91
92
93
       return false;
94
95
     public function exists(){
96
       return(!empty($this->_data)) ? true : false;
97
98
99
     public function logout(){
       $this->_db->delete('user_session', array('user_id', '=', $this->data()
       ->idUser));
       Session::delete($this->_sessionName);
       Cookie::delete($this->_cookieName);
     }
105
```

```
public function data (){
    return $this->_data;
}

public function isLoggedIn(){
    return $this->_isLoggedIn;
}

111
    public function isLoggedIn;
112
    return $this->_isLoggedIn;
113
    }
114
}
```

Klasse Validate

```
1 <?php
3 class Validate {
    private $_passed = false,
        $_errors = array(),
        _{db} = null;
6
    public function __construct(){
      $this->_db = DB ::getInstance();
10
11
    public function check ($source, $items = array()){
12
      foreach($items as $item => $rules){
13
        foreach($rules as $rule => $rule_value){
14
        $value = trim ($source[$item]);
          $item = escape($item);
16
17
          if($rule === 'required' && empty($value)){
18
             $this->addError("{$item} ist erforderlich");
19
          } else if (!empty($value)){
21
             switch ($rule) {
22
               case 'min':
23
                 if(strlen($value) < $rule_value){</pre>
                   $this->addError("{$item} muss aus mindestens {$rule_value}
24
      zeichen bestehen.");
                 }
25
                 break;
26
27
               case 'max':
28
                 if(strlen($value) > $rule_value){
29
                   $this->addError("{$item} muss aus mindestens {$rule_value}
      zeichen bestehen.");
                 }
                 break;
               case 'matches':
32
                 if($value != $source[$rule_value]){
33
                   $this->addError("{$rule_value} muss passen {$item}");
34
35
                 }
36
37
38
                 break;
               case 'unique':
```

```
$check = $this->_db->get($rule_value, array($item, '=',
40
      $value));
                  if ($check->count()){
41
                    $this->addError("{$item} existient bereits.");
42
43
44
45
                  break;
             }
46
47
           }
48
         }
49
50
       if(empty($this->_errors)){
51
         $this->_passed = true;
52
53
54
55
      return $this;
56
    private function addError($error){
57
      $this->_errors[]=$error;
58
59
60
61
    public function errors (){
62
63
64
      return $this->_errors;
65
    public function passed(){
67
       return $this->_passed;
68
69
70 }
71 ?>
```

Konfigurationsdatei

```
1 <?php
2 session_start();
4 $GLOBALS['config'] = array(
    'mysql' => array(
'host' => '127.0.0.1',
6
      'username' => 'root',
      'password' => '',
      'db' => 'feedbee'
9
    ),
10
    'remember' => array(
11
      'cookie_name' => 'hash',
12
      'cookie_expiry' => 604800
13
14
    'session' => array(
15
      'session_name' => 'user',
16
17
       'token_name' => 'token'
18
19);
```

```
20
spl_autoload_register(function($class){
   require_once 'classes/'.$class.'.php';
22
23
24 });
25
26 require_once 'functions/sanitize.php';
27
28 if(Cookie::exists(Config::get('remember/cookie_name')) && !Session::exists(
      Config::get('session/session_name'))){
    $hash = Cookie::get(Config::get('remember/cookie_name'));
29
    $hashCheck = DB::getInstance()->get('user_session', array('hash', '=',
30
      $hash));
31
   if ($hashCheck->count()){
32
33
      $user = new User($hashCheck->first()->idUser);
      $user->login();
  }
35
36 }
37 ?>
```

Funktion für die Ausgabe