

☒ **Gruppe 1** DI (FH) G. Horn, MSc**Abgabetermin:** Mittwoch, 03.06.2018, 24:00 Uhr☐ **Gruppe 2** DI (FH) I. Krammer**Name:** WEBER Clemens**Aufwand (h):** 20

## Produktbewertungsportal mit PHP und MySQL

Zu entwickeln ist ein einfaches Produktbewertungsportal, in dem registrierte Benutzer Bewertungen für eine Reihe von Produkten abgeben können, um beliebigen Besuchern des Portals so z. B. bei Kaufentscheidungen zu helfen. Dabei sind die nachstehend beschriebenen funktionalen und technischen Anforderungen vollständig umzusetzen.

### Funktionale Anforderungen

- Das Durchsuchen der Produkte sowie das Einsehen von abgegebenen Bewertungen muss anonym und somit auch ohne Anmeldung uneingeschränkt möglich sein.
- Für das Anlegen eines neuen Produkts oder das Abgeben einer Bewertung muss sich ein Benutzer zuvor registriert und angemeldet haben.
- Neue Benutzer können sich uneingeschränkt direkt über eine eigene Seite im Portal registrieren. Für jeden Benutzer sind dabei mindestens Benutzername (muss systemweit eindeutig sein) und Passwort über eine sinnvolle Benutzeroberfläche zu erfassen.
- Auf einer Übersichtsseite sollen alle im System gespeicherten Produkte aufgelistet werden. Für jedes Produkt muss mindestens sein Name, sein Hersteller, der Benutzer, der das Produkt angelegt hat, die Anzahl der abgegebenen Bewertungen und die durchschnittliche Bewertung (zwischen 1.0 und 5.0) für das Produkt angezeigt werden. Über ein entsprechendes Formular kann ein angemeldeter Benutzer ein neues Produkt anlegen.
- Durch Anklicken eines Produkts auf der Übersichtsseite gelangt man zu einer Detailansicht, in der alle Bewertungen zu einem Produkt chronologisch absteigend geordnet aufgelistet werden. Für jede Bewertung ist zumindest der Ersteller, das Erstellungsdatum, die eigentliche Bewertung (1, 2, 3, 4 oder 5 in Schulnoten) sowie ein möglicher Kommentar in Textform ansprechend darzustellen. Über ein entsprechendes Formular kann auf einfache Art und Weise eine weitere Bewertung für das Produkt erstellt werden.
- Auf einer Suchseite soll über ein Formular durch Eingabe eines Suchbegriffs (Freitext) gezielt nach Produkten im Forum gesucht werden können. Nach Absetzen einer Suchanfrage sollen alle Produkte angezeigt werden, deren Name oder Hersteller den eingegebenen Suchbegriff enthält. Durch das Anklicken eines Suchergebnisses kann direkt zur Detailseite des entsprechenden Produkts gesprungen werden.
- Ein angemeldeter Benutzer soll seine (und nur seine!) abgegebenen Bewertungen im Nachhinein auch noch korrigieren bzw. löschen können.
- Ebenso soll der Ersteller eines Produkts (und nur dieser!) die Produktdaten selbst auch nachträglich noch bearbeiten können. Dazu zählt allerdings natürlich nicht das Bearbeiten oder Löschen von Kommentaren anderer Benutzer... ;)

- Eine Gruppierung der Produkte in Kategorien wäre natürlich wünschenswert und auch sehr hilfreich für die Darstellung, ist aber nicht zwingend erforderlich.

## Technische Anforderungen

- Die Webseite ist mit PHP und unter Verwendung des Model-View-Controller-Entwurfsmusters zu realisieren.
- Alle zu speichernden Daten sollen in einer MySQL-Datenbank abgelegt werden. Entwickeln Sie dazu ein entsprechendes Datenbankmodell und dokumentieren Sie es ausführlich (Diagramme etc.).
- Geschäftslogik (Datenbankzugriff, Prüfen von Berechtigungen etc.) und Präsentation müssen möglichst gut entkoppelt werden. Sämtliche nötige Sicherheitsprüfungen müssen immer (auch) direkt in der Geschäftslogik erfolgen.
- Passwörter dürfen aus Sicherheitsgründen nicht im Klartext in der Datenbank abgelegt werden.
- Die Webseite soll ein einheitliches und ansprechendes Layout bieten und muss auch auf mobilen Endgeräten gut verwendbar sein. Für die Umsetzung dieser Anforderung kann ein entsprechendes UI-Framework wie z. B. Bootstrap verwendet werden.
- Die gesamte Anwendung muss möglichst robust implementiert werden. Diverse Sicherheitsprüfungen dürfen z. B. auch durch das manuelle Aufrufen von Skripts über entsprechend abgeänderte URLs nicht umgangen werden können.
- Die endgültige Lösung muss auf der in der Übung verwendeten Version von XAMPP betrieben werden können.

## Organisatorische Anforderungen

- Die Projektarbeit ist in Einzelarbeit auszuführen.
- Für die Umsetzung sind nach Möglichkeit nur die in der Lehrveranstaltung vorgestellten Mittel zu verwenden.
- Die Projektarbeit ist spätestens bis zum oben aufgeführten Abgabetermin im Moodle-Kurs der SCR4-Übung hochzuladen und zum laut Stundenplan vorgesehenen Termin in Form einer Live-Demonstration zu präsentieren.

## Abzugebende Komponenten

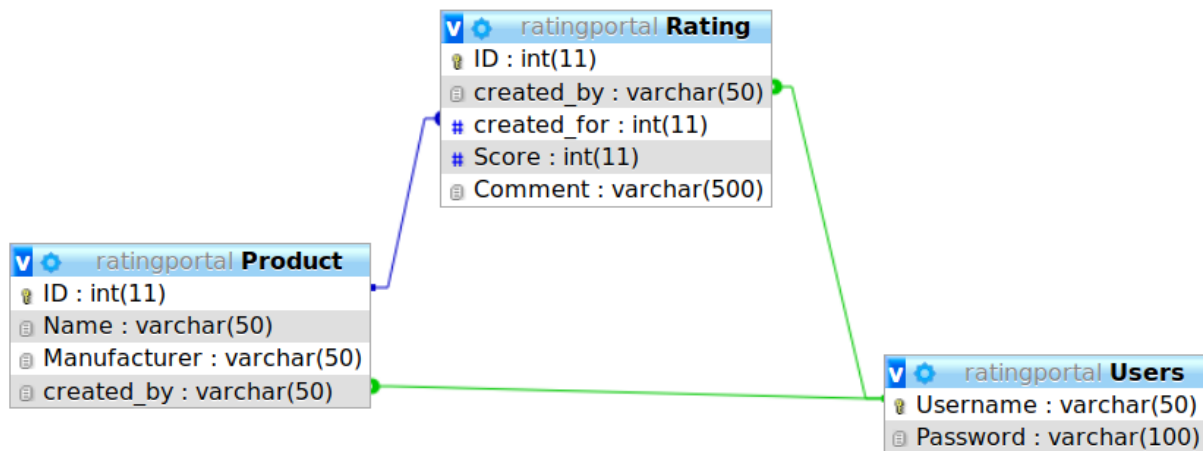
- Datenbankskript zur Erstellung der Datenbank als Textdatei
- Datenbankskript zur Erstellung von Testdaten in der Datenbank, mit denen auch bei der Entwicklung bereits getestet wurde, als Textdatei
- Ordner der entwickelten Webseite mit allen relevanten Daten (HTML-Seiten, PHP-Skripts, Stylesheets, andere Ressourcen wie Bilder etc.)
- Ausführliche Systemdokumentation als PDF-Datei, mindestens mit folgendem Inhalt:
  - Allgemeine Lösungsidee
  - Datenmodell und Erstellungsskript für Datenbank
  - Architektur und Struktur der Webseite
  - Abgedruckter Code der Webseite (HTML-Seiten, PHP-Skripts, Stylesheets)
  - Testfälle inklusive Screenshots

# 1 Produktwebertungsportal

## 1.1 Lösungsidee

Wie in der Angabe vorgegeben wurde das MVC Muster angewandt. Sowohl die Struktur als auch zum Teil der Code wurden von der Übung übernommen. Das Model besteht aus den Entitäten User, Product und Rating. Die Repräsentation in der Datenbank kann im Bild weiter unten entnommen werden. Auf der Hauptseite befindet sich eine Liste mit allen Produkten sowie die Möglichkeit die angezeigten Produkte zu filtern. Wird auf ein Produkt geklickt, so wird die Detailansicht geöffnet. Erst wenn sich ein Benutzer registriert und angemeldet hat, erscheint die Schaltfläche um ein neues Produkt anzulegen. In der Detailansicht wird nach der Anmeldung ebenfalls eine Schaltfläche aktiviert um ein Rating abzugeben.

## 1.2 Datenbank



```
1 CREATE DATABASE IF NOT EXISTS 'ratingportal '
3 CREATE TABLE 'Users' (
4   'Username' varchar(50) NOT NULL,
5   'Password' varchar(100) NOT NULL,
6   PRIMARY KEY ('Username')
7 ) ENGINE=InnoDB DEFAULT CHARSET=utf8
9 CREATE TABLE 'Product' (
10  'ID' int(11) NOT NULL AUTO.INCREMENT,
11  'Name' varchar(50) NOT NULL,
12  'Manufacturer' varchar(50) NOT NULL,
13  'created_by' varchar(50) NOT NULL,
14  PRIMARY KEY ('ID'),
15  KEY 'created_by' ('created_by'),
16  CONSTRAINT 'Product_ibfk_1' FOREIGN KEY ('created_by') REFERENCES 'Users' ('Username')
17 ) ENGINE=InnoDB AUTO.INCREMENT=4 DEFAULT CHARSET=utf8
19 CREATE TABLE 'Rating' (
20  'ID' int(11) NOT NULL AUTO.INCREMENT,
21  'created_by' varchar(50) NOT NULL,
22  'created_for' int(11) NOT NULL,
23  'Score' int(11) NOT NULL,
24  'Comment' varchar(500) DEFAULT NULL,
25  PRIMARY KEY ('ID'),
26  KEY 'rating_created_by' ('created_by'),
27  KEY 'rating_created_for' ('created_for'),
```

```

29 CONSTRAINT 'Rating_ibfk_1' FOREIGN KEY ('created_by') REFERENCES 'Users' ('Username'),
CONSTRAINT 'Rating_ibfk_2' FOREIGN KEY ('created_for') REFERENCES 'Product' ('ID') ON
DELETE CASCADE
) ENGINE=InnoDB AUTO_INCREMENT=18 DEFAULT CHARSET=utf8
31
/* If you cant execute this script try every table individually */

```

../database/create.txt

```

INSERT INTO 'Users' ('Username', 'Password') VALUES
2 ('chris', 'chris'),
('elisabeth', 'elisabeth'),
4 ('hans', 'hans'),
('lisa', 'lisa'),
6 ('sepp', 'sepp'),
('theresa', 'theresa'),
8 ('tom', 'tom');

10 INSERT INTO 'Product' ('ID', 'Name', 'Manufacturer', 'created_by') VALUES
(8, 'IPhone 5', 'Apple', 'chris'),
12 (9, 'IPhone 6', 'Apple', 'chris'),
(10, 'Thinkpad T460s', 'Lenovo', 'elisabeth'),
14 (11, 'T-800', 'Cyberdyne Systems', 'hans'),
(12, 'Kerbal Space Program', 'Squad', 'hans'),
16 (13, 'Civic Type R', 'Honda', 'lisa'),
(14, 'MSA 120', 'Stihl', 'sepp'),
18 (15, 'F-1', 'Rockedyn', 'theresa'),
(16, 'Thinkpad T460', 'Lenovo', 'tom');

20 INSERT INTO 'Rating' ('ID', 'created_by', 'created_for', 'Score', 'Comment') VALUES
22 (21, 'chris', 8, 3, 'could be better...'),
(22, 'chris', 9, 5, 'shit is lit fam'),
24 (23, 'elisabeth', 10, 4, ''),
(24, 'hans', 11, 5, 'it will get you man'),
26 (25, 'hans', 12, 5, ''),
(26, 'lisa', 13, 3, ''),
28 (27, 'sepp', 14, 4, ''),
(28, 'theresa', 15, 5, 'it will blow you away'),
30 (29, 'tom', 16, 4, ''),
(30, 'tom', 9, 4, ''),
32 (31, 'tom', 11, 5, ''),
(32, 'tom', 12, 5, 'played it for years.'),
34 (33, 'tom', 13, 4, ''),
(34, 'tom', 14, 4, ''),
36 (35, 'theresa', 8, 4, ''),
(36, 'theresa', 10, 4, ''),
38 (37, 'theresa', 11, 1, ''),
(38, 'theresa', 13, 4, ''),
40 (39, 'theresa', 16, 2, ''),
(40, 'sepp', 8, 4, ''),
42 (41, 'sepp', 9, 5, ''),
(42, 'sepp', 10, 5, ''),
44 (43, 'sepp', 11, 5, ''),
(44, 'sepp', 12, 4, ''),
46 (45, 'sepp', 13, 5, ''),
(46, 'sepp', 15, 5, ''),
48 (47, 'lisa', 8, 4, ''),
(48, 'lisa', 10, 4, ''),
50 (49, 'lisa', 11, 4, ''),
(50, 'lisa', 14, 5, ''),
52 (51, 'lisa', 16, 4, ''),
(52, 'hans', 9, 2, ''),
54 (53, 'hans', 14, 4, ''),
(54, 'elisabeth', 8, 4, ''),
56 (55, 'elisabeth', 16, 5, ''),

```

```

(56, 'elisabeth', 13, 4, ''),
58 (57, 'chris', 10, 4, ''),
(58, 'chris', 11, 5, ''),
60 (59, 'chris', 12, 5, ''),
(60, 'chris', 13, 5, ''),
62 (61, 'chris', 14, 5, ''),
(62, 'chris', 15, 2, ''),
64 (63, 'chris', 16, 2, '');

```

../database/testdata.txt

### 1.3 Sourcecode

```

<?php
2 // index.php acts as router
spl_autoload_register(function ($class) {
4     $file = __DIR__ . '/src/' . str_replace('\\', '/', $class) . '.php';
    if (file_exists($file)) {
6         require_once ($file);
    }
8 });
\Framework\Injector::register(\DataLayer\DataLayer::class, false, \DataLayer\DBDataLayer::
    class, array(
10     'server' => 'localhost',
    'userName' => 'root',
12     'password' => '',
    'database' => 'ratingportal'
14 ));
\Framework\Injector::register(\BusinessLogic\Session::class, true);
16 \Framework\MVC::handleRequest();

```

../index.php

```

<?php
2 namespace BusinessLogic;

4 final class AuthenticationManager
{
6     private $dataLayer;
    private $session;
8     const SESSION_USER_ID = 'userId';
    public function __construct(\DataLayer\DataLayer $dataLayer, \BusinessLogic\Session
        $session)
10     {
        $this->dataLayer = $dataLayer;
12         $this->session = $session;
    }
14     public function authenticate($userName, $password)
    {
16         $user = $this->dataLayer->getUserForUserNameAndPassword($userName, $password);
        if ($user != null) {
18             $this->session->storeValue(self::SESSION_USER_ID, $user->getId());
            return true;
20         }
        self::signOut();
22         return false;
    }
24     public function signOut()
    {
26         $this->session->deleteValue(self::SESSION_USER_ID);
    }
28     public function isAuthenticated()

```

```

30     {
31         return $this->session->hasValue(self::SESSION_USER_ID);
32     }
33     public function getAuthenticatedUser()
34     {
35         return $this->isAuthenticated() ? $this->dataLayer->getUser($this->session->getValue(
36             self::SESSION_USER_ID)) : null;
37     }
38 }

```

../src/BusinessLogic/AuthenticationManager.php

```

<?php
2 namespace BusinessLogic;

4 final class Session
5 {
6     public function __construct()
7     {
8         session_start();
9     }
10    public function hasValue($key)
11    {
12        return isset($_SESSION[$key]);
13    }
14    public function getValue($key, $defaultValue = null)
15    {
16        return $this->hasValue($key) ? $_SESSION[$key] : $defaultValue;
17    }
18    public function storeValue($key, $value)
19    {
20        $_SESSION[$key] = $value;
21    }
22    public function deleteValue($key)
23    {
24        unset($_SESSION[$key]);
25    }
26 }

```

../src/BusinessLogic/Session.php

```

<?php
2 namespace Controllers;

4 class Home extends \Framework\Controller
5 {
6     private $authenticationManager;
7     private $dataLayer;
8     public function __construct(\DataLayer\DataLayer $dataLayer, \BusinessLogic\
9         AuthenticationManager $authenticationManager)
10    {
11        $this->dataLayer = $dataLayer;
12        $this->authenticationManager = $authenticationManager;
13    }
14    public function GET_Index()
15    {
16        $products = array();
17
18        foreach ($this->dataLayer->getProducts() as $product) {
19            $d = array();
20            $d[0] = $this->dataLayer->getAvarageRating($product->getId());
21            $d[1] = $this->dataLayer->getNumRatings($product->getId());
22            $d[2] = $product;
23        }
24    }
25 }

```

```

24         $d[3] = $this->dataLayer->getUser($product->getUserID());
        array_push($products, $d);
    }

26     return $this->renderView('home', array(
28         'user' => $this->authenticationManager->getAuthenticatedUser(),
        'products' => $products,
30     ));
    }

32     public function POST_Index()
33     {
34         $products = array();

36         foreach ($this->dataLayer->getProductsWithFilter($this->getParam('f')) as $product)
37         {
38             $d = array();
            $d[0] = $this->dataLayer->getAverageRating($product->getId());
            $d[1] = $this->dataLayer->getNumRatings($product->getId());
            $d[2] = $product;
            $d[3] = $this->dataLayer->getUser($product->getUserID());
            array_push($products, $d);
44         }

46         return $this->renderView('home', array(
48             'user' => $this->authenticationManager->getAuthenticatedUser(),
            'products' => $products,
50         ));
    }
}

```

../src/Controllers/Home.php

```

1 <?php
namespace Controllers;

3
class NewProduct extends \Framework\Controller
4 {
5     private $authenticationManager;
6     private $dataLayer;
7     public function __construct(\DataLayer\DataLayer $dataLayer, \BusinessLogic\
    AuthenticationManager $authenticationManager)
8     {
9         $this->dataLayer = $dataLayer;
10        $this->authenticationManager = $authenticationManager;
11    }

13    public function GET_Index()
14    {
15        return $this->renderView('newproduct', array(
17            'user' => $this->authenticationManager->getAuthenticatedUser(),
18        ));
19    }

21    public function GET_Update()
22    {
23        return $this->renderView('newproduct', array(
25            'user' => $this->authenticationManager->getAuthenticatedUser(),
            'product' => $this->dataLayer->getProductById($this->getParam('pid'))
27        ));
    }

29

31    public function POST_Create(){

```

```

33         if ($this->getParam('pn') == "" || $this->getParam('manu') == "") {
34             return $this->renderView('newproduct', array(
35                 'user' => $this->authenticationManager->getAuthenticatedUser(),
36                 'errors' => array('No empty fields allowed'),
37             ));
38         }
39
40         $p = $this->dataLayer->createProduct(
41             $this->getParam('pn'),
42             $this->getParam('manu'),
43             $this->authenticationManager->getAuthenticatedUser()->getUserName()
44         );
45
46         return $this->redirect('Index', 'Product', array(
47             'pid' => $p
48         ));
49     }
50
51     public function POST_Update(){
52         if ($this->getParam('pn') == "" || $this->getParam('manu') == "") {
53             return $this->renderView('newproduct', array(
54                 'user' => $this->authenticationManager->getAuthenticatedUser(),
55                 'product' => $this->dataLayer->getProductById($this->getParam('pid')),
56                 'errors' => array('No empty fields allowed')
57             ));
58         }
59
60         $p = $this->dataLayer->updateProduct(
61             $this->getParam('pid'),
62             $this->getParam('pn'),
63             $this->getParam('manu'),
64             $this->authenticationManager->getAuthenticatedUser()->getUserName()
65         );
66
67         return $this->redirect('Index', 'Product', array(
68             'pid' => $p
69         ));
70     }
71
72     public function GET_Delete(){
73
74         $this->dataLayer->deleteProduct($this->getParam('pid'));
75
76         return $this->redirect('Index', 'UserHome');
77     }
78 }
79

```

../src/Controllers/NewProduct.php

```

1 <?php
2 namespace Controllers;
3
4 class NewRating extends \Framework\Controller
5 {
6     private $authenticationManager;
7     private $dataLayer;
8     public function __construct(\DataLayer\DataLayer $dataLayer, \BusinessLogic\
9         AuthenticationManager $authenticationManager)
10     {
11         $this->dataLayer = $dataLayer;
12         $this->authenticationManager = $authenticationManager;
13     }
14

```



```

15 public function GET_Index()
16 {
17     return $this->renderView('newrating', array(
18         'user' => $this->authenticationManager->getAuthenticatedUser(),
19         'product' => $this->dataLayer->getProductById($this->getParam('pid')),
20     ));
21 }
22
23 public function GET_Update()
24 {
25     return $this->renderView('newrating', array(
26         'user' => $this->authenticationManager->getAuthenticatedUser(),
27         'product' => $this->dataLayer->getProductById($this->getParam('pid')),
28         'rating' => $this->dataLayer->getRatingById($this->getParam('rid')),
29     ));
30 }
31
32 public function POST_Create()
33 {
34     if ($this->getParam('rating') < 1 || $this->getParam('rating') > 5) {
35         return $this->renderView('newrating', array(
36             'user' => $this->authenticationManager->getAuthenticatedUser(),
37             'product' => $this->dataLayer->getProductById($this->getParam('pid')),
38             'errors' => array("Invalid data provided"),
39         ));
40     }
41
42     $p = $this->dataLayer->createRating(
43         $this->getParam('pid'),
44         $this->authenticationManager->getAuthenticatedUser()->getUserName(),
45         $this->getParam('rating'),
46         $this->getParam('cm')
47     );
48
49     return $this->redirect('Index', 'Product', array(
50         'pid' => $p,
51     ));
52 }
53
54 public function POST_Update()
55 {
56     if ($this->getParam('rating') < 1 || $this->getParam('rating') > 5) {
57         return $this->renderView('newrating', array(
58             'user' => $this->authenticationManager->getAuthenticatedUser(),
59             'product' => $this->dataLayer->getProductById($this->getParam('pid')),
60             'rating' => $this->dataLayer->getRatingById($this->getParam('rid')),
61             'errors' => array("Invalid data provided"),
62         ));
63     }
64
65     $this->dataLayer->updateRating(
66         $this->getParam('rid'),
67         $this->authenticationManager->getAuthenticatedUser()->getUserName(),
68         $this->getParam('rating'),
69         $this->getParam('cm')
70     );
71
72     return $this->redirect('Index', 'Product', array(
73         'pid' => $this->getParam('pid'),
74     ));
75 }
76
77 public function GET_Delete()
78 {

```

```

79         $this->dataLayer->deleteRating($this->getParam('rid'));
81     return $this->redirect('Index', 'UserHome');
83 }
}

```

../src/Controllers/NewRating.php

```

<?php
2 namespace Controllers;

4 class Product extends \Framework\Controller
{
6     private $authenticationManager;
6     private $dataLayer;
8     public function __construct(\DataLayer\DataLayer $dataLayer, \BusinessLogic\
AuthenticationManager $authenticationManager)
    {
10         $this->dataLayer = $dataLayer;
10         $this->authenticationManager = $authenticationManager;
12     }
12     public function GET_Index()
14     {
14         return $this->renderView('product', array(
16             'user' => $this->authenticationManager->getAuthenticatedUser(),
16             'product' => $this->dataLayer->getProductById($this->getParam('pid')),
18             'score' => $this->dataLayer->getAvarageRating($this->getParam('pid')),
20             'ratings' => $this->dataLayer->getRatingsByProductId($this->getParam('pid'))
20         ));
22     }
}

```

../src/Controllers/Product.php

```

<?php
2 namespace Controllers;

4 class User extends \Framework\Controller
{
6     private $authenticationManager;
6     private $dataLayer;

10     const PARAMUSERNAME = 'un';
10     const PARAMPASSWORD = 'pwd';
12     public function __construct(\DataLayer\DataLayer $dataLayer, \BusinessLogic\
AuthenticationManager $authenticationManager)
    {
14         $this->dataLayer = $dataLayer;
14         $this->authenticationManager = $authenticationManager;
16     }

18     public function GET_LogIn()
18     {
20         if ($this->authenticationManager->isAuthenticated()) {
20             return $this->redirect('Index', 'Home');
22         }
22         return $this->renderView('login', array(
24             'user' => $this->authenticationManager->getAuthenticatedUser(),
24             'userName' => $this->getParam(self::PARAMUSERNAME),
26         ));
26     }
28     public function POST_LogIn()

```

```

30 {
31     if (!$this->authenticationManager->authenticate(
32         $this->getParam(self::PARAM_USERNAME),
33         $this->getParam(self::PARAM_PASSWORD)
34     )) {
35         return $this->renderView('login', array(
36             'user' => $this->authenticationManager->getAuthenticatedUser(),
37             'userName' => $this->getParam(self::PARAM_USERNAME),
38             'errors' => array('Invalid user name or password.'),
39         ));
40     }
41     return $this->redirect('Index', 'Home');
42 }
43 public function POST_LogOut()
44 {
45     $this->authenticationManager->signOut();
46     return $this->redirect('Index', 'Home');
47 }
48 public function GET_Register()
49 {
50     return $this->renderView('register', array(
51         'user' => $this->authenticationManager->getAuthenticatedUser(),
52         'userName' => $this->getParam(self::PARAM_USERNAME),
53     ));
54 }
55 public function POST_Register()
56 {
57     if ($this->getParam(self::PARAM_USERNAME) == "" || $this->getParam(self::
58     PARAM_PASSWORD) == ""){
59         return $this->renderView('register', array(
60             'user' => $this->authenticationManager->getAuthenticatedUser(),
61             'userName' => $this->getParam(self::PARAM_USERNAME),
62             'errors' => array('invalid username or password'),
63         ));
64     }
65
66     if ($this->dataLayer->createUser(
67         $this->getParam(self::PARAM_USERNAME),
68         $this->getParam(self::PARAM_PASSWORD))) {
69         return $this->redirect('LogIn', 'User');
70     } else {
71         return $this->renderView('register', array(
72             'user' => $this->authenticationManager->getAuthenticatedUser(),
73             'userName' => $this->getParam(self::PARAM_USERNAME),
74             'errors' => array('User already exists'),
75         ));
76     }
77 }
78 }

```

../src/Controllers/User.php

```

1 <?php
2 namespace Controllers;
3
4 class UserHome extends \Framework\Controller
5 {
6     private $authenticationManager;
7     private $dataLayer;
8     public function __construct(\DataLayer\DataLayer $dataLayer, \BusinessLogic\
9     AuthenticationManager $authenticationManager)
10    {
11        $this->dataLayer = $dataLayer;

```

```

12     $this->authenticationManager = $authenticationManager;
13 }
14 public function GET_Index()
15 {
16     $productRatings = array();
17     $ratings = $this->dataLayer->getRatingsByUser($this->authenticationManager->
getAuthenticatedUser()->getUserName());
18
19     foreach ($ratings as $rating) {
20         $d = array();
21         $d[0] = $this->dataLayer->getProductById($rating->getProductID());
22         $d[1] = $rating;
23         array_push($productRatings, $d);
24     }
25
26     return $this->renderView('userhome', array(
27         'user' => $this->authenticationManager->getAuthenticatedUser(),
28         'products' => $this->dataLayer->getProductsByUser($this->authenticationManager->
getAuthenticatedUser()->getUserName()),
29         'ratings' => $productRatings,
30     ));
31 }
32 }

```

../src/Controllers/UserHome.php

```

<?php
2 namespace DataLayer;
3
4 interface DataLayer
5 {
6     public function getUser($id);
7     public function getUserForUserNameAndPassword($userName, $password);
8     public function createUser($userName, $password);
9
10    public function getProducts();
11    public function getProductById($id);
12    public function getProductsWithFilter($filter);
13    public function getRatingsByProductId($productId);
14    public function getProductsByUser($userName);
15    public function getRatingsByUser($userName);
16    public function createProduct($productName, $manufacturer, $uid);
17    public function createRating($pid, $uid, $score, $comment);
18    public function getAverageRating($pid);
19    public function getNumRatings($pid);
20    public function deleteRating($rid);
21    public function deleteProduct($pid);
22    public function updateProduct($pid, $productName, $manufacturer, $uid);
23    public function getRatingById($rid);
24    public function updateRating($rid, $uid, $score, $comment);
25 }

```

../src/DataLayer/DataLayer.php

```

1 <?php
2 namespace DataLayer;
3
4 use \Domain\Product;
5 use \Domain\Rating;
6 use \Domain\User;
7
8 class DBDataLayer implements DataLayer
9 {

```

```

11 private $server;
12 private $userName;
13 private $password;
14 private $database;

15 public function __construct($server, $userName, $password, $database)
16 {
17     $this->server = $server;
18     $this->userName = $userName;
19     $this->password = $password;
20     $this->database = $database;
21 }

22 private function getConnection()
23 {
24     $conn = new \mysqli($this->server, $this->userName, $this->password, $this->database
25 );
26     if (!$conn) {
27         die('Unable to connect to database: ' . mysqli_connect_error());
28     }
29     return $conn;
30 }

31 private function executeQuery($connection, $query)
32 {
33     $result = $connection->query($query);
34     if (!$result) {
35         die('Error in query '$query': ' . $connection->error);
36     }
37     return $result;
38 }

39 private function executeStatement($connection, $query, $bindFunc)
40 {
41     $statement = $connection->prepare($query);
42     if (!$statement) {
43         die('Error in prepared statement '$query': ' . $connection->error);
44     }
45     $bindFunc($statement);
46     if (!$statement->execute()) {
47         die('Error executing prepared statement '$query': ' . $connection->error);
48     }
49     return $statement;
50 }

51 public function getUser($id)
52 {
53     $user = null;
54
55     $conn = $this->getConnection();
56     $stat = $this->executeStatement(
57         $conn,
58         'SELECT Username, Password FROM Users WHERE Username = ?',
59         function ($s) use ($id) {
60             $s->bind_param('s', $id);
61         }
62     );
63     $stat->bind_result($userName, $password);
64     if ($stat->fetch()) {
65         $user = new User($userName, $password);
66     }
67     $stat->close();
68     $conn->close();
69     return $user;
70 }
71
72 }
73

```

```

75 public function getUserForUserNameAndPassword($userName, $password)
76 {
77     $user = null;
78     $conn = $this->getConnection();
79     $stat = $this->executeStatement(
80         $conn,
81         'SELECT Username, Password FROM Users WHERE Username = ?',
82         function ($s) use ($userName) {
83             $s->bind_param('s', $userName);
84         }
85     );
86     $stat->bind_result($un, $pw);
87
88     if ($stat->fetch() && $password == $pw) {
89         $user = new User($un, $un, $pw);
90     }
91     $stat->close();
92     $conn->close();
93     return $user;
94 }
95
96 public function createUser($userName, $password)
97 {
98     if($this->getUser($userName) != null){
99         return false;
100     }
101
102     $conn = $this->getConnection();
103     $stat = $this->executeStatement(
104         $conn,
105         'INSERT INTO Users (Username, Password) VALUES (?, ?)',
106         function ($s) use ($userName, $password) {
107             $s->bind_param('ss', $userName, $password);
108         }
109     );
110     return true;
111 }
112
113 public function getProducts()
114 {
115     $products = array();
116
117     $conn = $this->getConnection();
118     $res = $this->executeQuery($conn, 'SELECT ID, Name, Manufacturer, created_by FROM
Product');
119     while ($p = $res->fetch_object()) {
120         $products[] = new Product($p->ID, $p->Name, $p->created_by, $p->Manufacturer);
121     }
122     $res->close();
123     $conn->close();
124     return $products;
125 }
126
127 public function getProductById($id)
128 {
129     $products = array();
130
131     $conn = $this->getConnection();
132     $res = $this->executeStatement($conn, 'SELECT ID, Name, Manufacturer, created_by
FROM Product WHERE ID = ?',
133         function ($s) use ($id) {
134             $s->bind_param('i', $id);
135         }
136     );

```

```

137     $res->bind_result($ID, $Name, $Manufacturer, $created_by);
138     while ($res->fetch()) {
139         $products[] = new Product($ID, $Name, $created_by, $Manufacturer);
140     }
141     $res->close();
142     $conn->close();
143     return $products[0];
144 }
145
146 public function getProductsByUser($userName)
147 {
148     $products = array();
149
150     $conn = $this->getConnection();
151     $res = $this->executeStatement($conn, 'SELECT ID, Name, Manufacturer, created_by
152 FROM Product WHERE created_by = ?',
153     function ($s) use ($userName) {
154         $s->bind_param('s', $userName);
155     }
156 );
157     $res->bind_result($ID, $Name, $Manufacturer, $created_by);
158     while ($res->fetch()) {
159         $products[] = new Product($ID, $Name, $created_by, $Manufacturer);
160     }
161     $res->close();
162     $conn->close();
163     return $products;
164 }
165
166 public function getProductsWithFilter($filter)
167 {
168     $sqlfilter = "%" . $filter . "%";
169     $products = array();
170
171     $conn = $this->getConnection();
172     $res = $this->executeStatement($conn, 'SELECT ID, Name, Manufacturer, created_by
173 FROM Product WHERE Name LIKE ? OR Manufacturer LIKE ?',
174     function ($s) use ($sqlfilter) {
175         $s->bind_param('ss', $sqlfilter, $sqlfilter);
176     }
177 );
178     $res->bind_result($ID, $Name, $Manufacturer, $created_by);
179     while ($res->fetch()) {
180         $products[] = new Product($ID, $Name, $created_by, $Manufacturer);
181     }
182     $res->close();
183     $conn->close();
184     return $products;
185 }
186
187 public function createProduct($productName, $manufacturer, $uid){
188     $conn = $this->getConnection();
189     $res = $this->executeStatement($conn, 'INSERT INTO Product (Name, Manufacturer,
190 created_by) VALUES (?, ?, ?)',
191     function ($s) use ($productName, $manufacturer, $uid) {
192         $s->bind_param('sss', $productName, $manufacturer, $uid);
193     }
194 );
195     $pid = $res->insert_id;
196     $res->close();
197     $conn->close();
198     return $pid;
199 }
200
201 public function createRating($pid, $uid, $score, $comment){

```

```

199     $conn = $this->getConnection();
200     $res = $this->executeStatement($conn, 'INSERT INTO Rating (created_by, created_for,
Score, Comment) VALUES (?, ?, ?, ?)',
201         function ($s) use ($uid, $pid, $score, $comment) {
202             $s->bind_param('iis', $uid, $pid, $score, $comment);
203         }
204     );
205     $res->close();
206     $conn->close();
207     return $pid;
208 }
209
210 public function getRatingsByProductId($productId)
211 {
212     $ratings = array();
213
214     $conn = $this->getConnection();
215     $res = $this->executeStatement($conn, 'SELECT ID, created_by, created_for, Score,
Comment FROM Rating WHERE created_for = ?',
216         function ($s) use ($productId) {
217             $s->bind_param('i', $productId);
218         }
219     );
220     $res->bind_result($ID, $created_by, $created_for, $Score, $Comment);
221     while ($res->fetch()) {
222         $ratings[] = new Rating($ID, $created_for, $created_by, $Score, $Comment);
223     }
224     $res->close();
225     $conn->close();
226     return $ratings;
227 }
228
229 public function getRatingsByUser($userName)
230 {
231     $ratings = array();
232
233     $conn = $this->getConnection();
234     $res = $this->executeStatement($conn, 'SELECT ID, created_by, created_for, Score,
Comment FROM Rating WHERE created_by = ?',
235         function ($s) use ($userName) {
236             $s->bind_param('s', $userName);
237         }
238     );
239     $res->bind_result($ID, $created_by, $created_for, $Score, $Comment);
240     while ($res->fetch()) {
241         $ratings[] = new Rating($ID, $created_for, $created_by, $Score, $Comment);
242     }
243     $res->close();
244     $conn->close();
245     return $ratings;
246 }
247
248 public function getAvarageRating($pid){
249     $s = 0;
250     $conn = $this->getConnection();
251     $res = $this->executeStatement($conn, 'SELECT AVG(Score) FROM 'Rating' WHERE
created_for = ?',
252         function ($s) use ($pid) {
253             $s->bind_param('i', $pid);
254         }
255     );
256     $res->bind_result($score);
257     if ($res->fetch()) {
258         $s = $score;
259     }

```



```

261     $res->close();
262     $conn->close();
263     return $s;
264 }
265
266 public function getNumRatings($pid){
267     $s = 0;
268     $conn = $this->getConnection();
269     $res = $this->executeStatement($conn, 'SELECT COUNT(Score) FROM 'Rating' WHERE
created_for = ?',
270         function ($s) use ($pid) {
271             $s->bind_param('i', $pid);
272         }
273     );
274     $res->bind_result($cnt);
275     if ($res->fetch()) {
276         $s = $cnt;
277     }
278     $res->close();
279     $conn->close();
280     return $s;
281 }
282
283 public function deleteRating($rid){
284     $conn = $this->getConnection();
285     $res = $this->executeStatement($conn, 'DELETE FROM 'Rating' WHERE ID = ?',
286         function ($s) use ($rid) {
287             $s->bind_param('i', $rid);
288         }
289     );
290     $res->close();
291     $conn->close();
292 }
293
294 public function deleteProduct($pid){
295     $conn = $this->getConnection();
296     $res = $this->executeStatement($conn, 'DELETE FROM 'Product' WHERE ID = ?',
297         function ($s) use ($pid) {
298             $s->bind_param('i', $pid);
299         }
300     );
301     $res->close();
302     $conn->close();
303 }
304
305 public function updateProduct($pid, $productName, $manufacturer, $uid){
306     $conn = $this->getConnection();
307     $res = $this->executeStatement($conn, 'UPDATE 'Product' SET Name = ?, Manufacturer =
? WHERE ID = ? AND created_by = ?',
308         function ($s) use ($pid, $productName, $manufacturer, $uid) {
309             $s->bind_param('ssis', $productName, $manufacturer, $pid, $uid);
310         }
311     );
312     $res->close();
313     $conn->close();
314     return $pid;
315 }
316
317 public function getRatingById($rid){
318     $ratings = array();
319
320     $conn = $this->getConnection();
321     $res = $this->executeStatement($conn, 'SELECT ID, created_by, created_for, Score,
Comment FROM Rating WHERE ID = ?',
322         function ($s) use ($rid) {

```

```

323         $s->bind-param('i', $rid);
324     }
325     $res->bind_result($ID, $created_by, $created_for, $Score, $Comment);
326     while ($res->fetch()) {
327         $ratings[] = new Rating($ID, $created_for, $created_by, $Score, $Comment);
328     }
329     $res->close();
330     $conn->close();
331     return $ratings[0];
332 }
333
334 public function updateRating($rid, $uid, $score, $comment){
335     $conn = $this->getConnection();
336     $res = $this->executeStatement($conn, 'UPDATE `Rating` SET Score = ?, Comment = ?
337     WHERE ID = ? AND created_by = ?',
338     function ($s) use ($score, $comment, $rid, $uid) {
339         $s->bind-param('isis', $score, $comment, $rid, $uid);
340     }
341     );
342     $res->close();
343     $conn->close();
344 }
345 }

```

../src/DataLayer/DBDataLayer.php

```

1 <?php
2 namespace Domain;
3
4 class Entity
5 {
6     private $id;
7     public function getId()
8     {
9         return $this->id;
10    }
11    public function __construct($id)
12    {
13        $this->id = $id;
14    }
15 }

```

../src/Domain/Entity.php

```

1 <?php
2 namespace Domain;
3
4 class Product extends Entity
5 {
6     private $productName;
7     private $userID;
8     private $manufacturer;
9
10    public function __construct($id, $productName, $userID, $manufacturer)
11    {
12        parent::__construct($id);
13        $this->productName = $productName;
14        $this->userID = $userID;
15        $this->manufacturer = $manufacturer;
16    }
17
18    public function getProductName()

```

```

19     {
20         return $this->productName;
21     }
22
23     public function getUserID(){
24         return $this->userID;
25     }
26
27     public function getManufacturer()
28     {
29         return $this->manufacturer;
30     }
31 }

```

../src/Domain/Product.php

```

1 <?php
2 namespace Domain;
3
4 class Rating extends Entity
5 {
6     private $userID;
7     private $score;
8     private $productId;
9     private $description;
10
11     public function __construct($id, $productId, $userID, $score, $description)
12     {
13         parent::__construct($id);
14         $this->productId = $productId;
15         $this->userID = $userID;
16         $this->score = $score;
17         $this->description = $description;
18     }
19
20     public function getProductID()
21     {
22         return $this->productId;
23     }
24
25     public function getUserID()
26     {
27         return $this->userID;
28     }
29
30     public function getScore()
31     {
32         return $this->score;
33     }
34
35     public function getDescription()
36     {
37         return $this->description;
38     }
39 }

```

../src/Domain/Rating.php

```

1 <?php
2 namespace Domain;
3
4 class User extends Entity
5 {
6     private $userName;

```

```

7     private $password;

9     public function __construct($id, $userName, $password)
10    {
11        parent::__construct($id);
12        $this->userName = $userName;
13        $this->password = $password;
14    }

15    public function getUserName()
16    {
17        return $this->userName;
18    }

19    public function getPassword()
20    {
21        return $this->password;
22    }
23    }
24 }

```

../src/Domain/User.php

```

1 <?php
2 namespace Framework;
3
4 class Controller
5 {
6     final public function hasParam($id)
7     {
8         return isset($_REQUEST[$id]);
9     }

10    final public function getParam($id, $defaultValue = null)
11    {
12        return isset($_REQUEST[$id]) ? $_REQUEST[$id] : $defaultValue;
13    }

14    final public function renderView($view, $model = array())
15    {
16        ViewRenderer::renderView($view, $model);
17    }

18    final public function redirectToUrl($url)
19    {
20        header("Location: $url");
21    }

22    final public function redirect($action, $controller, $params = null)
23    {
24        $this->redirectToUrl($this->buildActionLink($action, $controller, $params));
25    }

26    final public function buildActionLink($action, $controller, $params)
27    {
28        return MVC::buildActionLink($action, $controller, $params);
29    }
30 }
31 }
32 }
33 }
34 }
35 }

```

../src/Framework/Controller.php

```

1 <?php
2 namespace Framework;
3
4 final class Injector

```

```

5 {
6     private function __construct()
7     {}
8     private static $instances;
9     private static $singletonFlags;
10    private static $classNames;
11    private static $ctorParameters;
12    public static function register($serviceName, $isSingleton = false, $className = null,
13    $ctorParameters = null)
14    {
15        self::$singletonFlags[$serviceName] = $isSingleton;
16        self::$classNames[$serviceName] = $className;
17        self::$ctorParameters[$serviceName] = $ctorParameters;
18    }
19    public static function resolve($serviceName)
20    {
21        if (isset(self::$instances[$serviceName])) {
22            return self::$instances[$serviceName];
23        }
24        $className = isset(self::$classNames[$serviceName]) && self::$classNames[
25        $serviceName] != null ? self::$classNames[$serviceName] : $serviceName;
26        $actualParams = array();
27        $rClass = (new \ReflectionClass($className));
28        if ($rClass == null) {
29            die("Cannot find class '$className'.");
30        }
31        $rCtor = $rClass->getConstructor();
32        if ($rCtor != null) {
33            foreach ($rCtor->getParameters() as $iParam) {
34                if (isset(self::$ctorParameters[$serviceName]) && isset(self::
35                $ctorParameters[$serviceName][$iParam->getName()])) {
36                    $actualParams[] = self::$ctorParameters[$serviceName][$iParam->getName()
37                ];
38                } else if ($iParam->isOptional()) {
39                    $actualParams[] = $iParam->getDefaultValue();
40                } else if ($iParam->getClass() != null) {
41                    $actualParams[] = self::resolve($iParam->getClass()->name);
42                } else {
43                    die("Cannot resolve constructor parameter '{$iParam->getName()}' for
44                    class '$className'.");
45                }
46            }
47            $instance = new $className(...$actualParams);
48            if (isset(self::$singletonFlags[$serviceName]) && self::$singletonFlags[$serviceName
49            ] == true) {
50                self::$instances[$serviceName] = $instance;
51            }
52            return $instance;
53        }
54    }
55 }

```

../src/Framework/Injector.php

```

1 <?php
2 namespace Framework;
3
4 final class MVC
5 {
6     private function __construct()
7     {}
8
9     const PARAM_CONTROLLER = 'c';
10    const PARAM_ACTION = 'a';
11    const DEFAULT_CONTROLLER = 'Home';

```

```

13     const DEFAULT.ACTION = 'Index';
14     const CONTROLLER.NAMESPACE = '\\Controllers';
15     private static $viewPath = 'views';
16     public static function getViewPath()
17     {
18         return self::$viewPath;
19     }
20     public static function buildActionLink($action, $controller, $params)
21     {
22         $res = '?' . self::PARAM.ACTION . '=' . rawurlencode($action) . '&' . self::
PARAM.CONTROLLER . '=' . rawurlencode($controller);
23         if (is_array($params)) {
24             foreach ($params as $name => $value) {
25                 $res .= '&' . rawurlencode($name) . '=' . rawurlencode($value);
26             }
27         }
28         return $res;
29     }
30     public static function handleRequest()
31     {
32         $controllerName = isset($_REQUEST[self::PARAM.CONTROLLER]) ? $_REQUEST[self::
PARAM.CONTROLLER] : self::DEFAULT.CONTROLLER;
33         $controller = self::CONTROLLER.NAMESPACE . "\\$controllerName";
34         $method = $_SERVER['REQUEST_METHOD'];
35         $action = isset($_REQUEST[self::PARAM.ACTION]) ? $_REQUEST[self::PARAM.ACTION] :
self::DEFAULT.ACTION;
36         $m = $method . '_' . $action;
37         //(new $controller)->$m();
38         \Framework\Injector::resolve($controller)->$m();
39     }

```

../src/Framework/MVC.php

```

1 <?php
2 namespace Framework;
3
4 final class ViewRenderer
5 {
6     private function __construct()
7     {
8     }
9     public static function renderView($view, $model)
10    {
11        require MVC::getViewPath() . "/$view.inc";
12    }
13    private static function htmlOut($string)
14    {
15        echo (nl2br(htmlentities($string)));
16    }
17    private static function beginActionForm($action, $controller, $params = null, $method =
'get', $cssClass = null)
18    {
19        $cc = $cssClass != null ? " class=\"$cssClass\" : ";
20        $form = <<<FORM
21    <form method="$method" action="$action"$cc>
22        <input type="hidden" name="c" value="$controller">
23        <input type="hidden" name="a" value="$action">
24    FORM;
25        echo ($form);
26        if (is_array($params)) {
27            foreach ($params as $name => $value) {
28                $form = <<<FORM
29    <input type="hidden" name="$name" value="$value">

```

```

31 FORM;
    echo ($form);
33     }
    }
35 }
    private static function endActionForm()
37 {
    echo ("</form>");
39 }
    private static function actionLink($content, $action, $controller, $params = null,
    $cssClass = null)
41 {
    $cc = $cssClass != null ? " class=\"$cssClass\"" : "";
43 $url = MVC::buildActionLink($action, $controller, $params);
    $link = <<<LINK
45 <a href="$url"$cc>
    LINK;
47     echo ($link);
    echo ($content);
49     echo ('</a>');
    }
51 }

```

../src/Framework/ViewRenderer.php

```

1 <?php self::renderView('partial/header', $model);?>
<div class="container">
2 <?php
    if (isset($model['user'])) { ?>
5         <?php self::actionLink("Create new product", 'Index', 'NewProduct'); ?>
        </br>
7 <?php } ?>
        <?php self::beginActionForm('Index', 'Home', null, 'post');?>
9         <div class="form-row">
            <div class="col">
11                 <input class="form-control" id="filter" name="f" placeholder="your filter
                    here...">
                </div>
13                 <div class="col">
                    <button class="btn btn-primary">Apply</button>
15                 </div>
            </div>
17 <?php self::endActionForm();?>

19 <h1>Products</h1>
<p>
21     <table class="table">
        <tr>
23             <th>Name</th>
            <th>Manufacturer</th>
25             <th>Rating</th>
            <th># Rated</th>
27             <th>created by</th>
        </tr>
29         <?php foreach ($model['products'] as $product) {?>
            <tr>
31                 <td>
                    <?php self::actionLink($product[2]->getProductName(), 'Index', 'Product'
, array('pid' => $product[2]->getId()));?>
33                 </td>
                <td>
35                     <?php self::htmlout($product[2]->getManufacturer());?>
                    </td>
37                 <td>
                    <?php self::htmlout($product[0]);?>

```

```

39         </td>
40     </td>
41     <?php self::htmlout($product[1]);?>
42 </td>
43 <td>
44     <?php self::htmlout($product[3]->getUserName());?>
45 </td>
46 </tr>
47 <?php }?>
48 </table>
49 </p>
50 </div>
51 <?php self::renderView('partial/footer', $model);?>

```

../views/home.inc

```

1 <?php self::renderView('partial/header', $model); ?>
2 <div class="container">
3     <h1>Login</h1>
4
5     <?php self::beginActionForm('LogIn', 'User', null, 'post'); ?>
6     <div class="form-group">
7         <label for="userName">Username</label>
8         <input class="form-control" id="userName" name="un" value="<?php self::htmlOut(
9             $model['userName']); ?>">
10     </div>
11     <div class="form-group">
12         <label for="password">Password</label>
13         <input class="form-control" type="password" id="password" name="pwd">
14     </div>
15     <button class="btn btn-primary">Login</button>
16 <?php self::endActionForm(); ?>
17 </div>
18 <?php self::renderView('partial/footer', $model); ?>

```

../views/login.inc

```

1 <?php self::renderView('partial/header', $model);?>
2 <div class="container">
3     <?php if (!isset($model['product'])) {?>
4         <h1>New Product</h1>
5     <?php } else {?>
6         <h1>Update Product</h1>
7     <?php }?>
8
9     <?php if (!isset($model['product'])) { ?>
10     <?php self::beginActionForm('Create', 'NewProduct', null, 'post'); ?>
11     <div class="form-group">
12         <label for="productName">Product name</label>
13         <input class="form-control" id="productName" name="pn">
14     </div>
15     <div class="form-group">
16         <label for="manufacturer">Manufacturer</label>
17         <input class="form-control" id="manufacturer" name="manu">
18     </div>
19     <button class="btn btn-primary">Create</button>
20 <?php self::endActionForm();?>
21 <?php } else { ?>
22     <?php self::beginActionForm('Update', 'NewProduct', array('pid' => $model['product']
23     ]->getId()), 'post'); ?>
24     <div class="form-group">
25         <label for="productName">Product name</label>
26         <input class="form-control" id="productName" name="pn" value="<?php self::
27             htmlout($model['product']->getProductName());?>">

```



```

27     </div>
28     <div class="form-group">
29         <label for="manufacturer">Manufacturer</label>
30         <input class="form-control" id="manufacturer" name="manu" value="<?php self::
htmlout($model['product']->getManufacturer());?>">
31     </div>
32     <button class="btn btn-primary">Update</button>
33     <?php self::endActionForm();?>
34     <?php } ?>
35 </div>
<?php self::renderView('partial/footer', $model);?>

```

../views/newproduct.inc

```

<?php self::renderView('partial/header', $model);?>
2 <div class="container">
3     <?php if (!isset($model['rating'])) { ?>
4     <h1>New rating for <?php self::htmlout($model['product']->getProductName())?></h1>
5     <?php } else { ?>
6     <h1>Update rating for <?php self::htmlout($model['product']->getProductName())?></h1>
7     <?php } ?>
8     <?php if (!isset($model['rating'])) {?>
9     <?php self::beginActionForm('Create', 'NewRating', array('pid' => $model['product']->
getId()), 'post');?>
10     <div class="form-group">
11         <label for="comment">Comment</label>
12         <input class="form-control" id="comment" name="cm">
13     </div>
14     <div class="radio">
15         <label><input type="radio" name="rating" value="1">1</label>
16     </div>
17     <div class="radio">
18         <label><input type="radio" name="rating" value="2">2</label>
19     </div>
20     <div class="radio">
21         <label><input type="radio" name="rating" value="3" checked="checked">3</label>
22     </div>
23     <div class="radio">
24         <label><input type="radio" name="rating" value="4">4</label>
25     </div>
26     <div class="radio">
27         <label><input type="radio" name="rating" value="5">5</label>
28     </div>
29     <button class="btn btn-primary">Create</button>
30     <?php self::endActionForm();?>
31     <?php } else {?>
32     <?php self::beginActionForm('Update', 'NewRating', array('pid' => $model['product']
->getId(), 'rid' => $model['rating']->getId()), 'post');?>
33     <div class="form-group">
34         <label for="comment">Comment</label>
35         <input class="form-control" id="comment" name="cm" value="<?php self::htmlout(
$model['rating']->getDescription());?>">
36     </div>
37     <div class="radio">
38         <label><input type="radio" name="rating" value="1" <?php if ($model['rating']->
getScore() == 1) {?>checked="checked" <?php }?>>1</label>
39     </div>
40     <div class="radio">
41         <label><input type="radio" name="rating" value="2" <?php if ($model['rating']->
getScore() == 2) {?>checked="checked" <?php }?>>2</label>
42     </div>
43     <div class="radio">
44         <label><input type="radio" name="rating" value="3" <?php if ($model['rating']->getScore()
== 3) {?>checked="checked" <?php }?>>3</label>

```

```

46     </div>
    <div class="radio">
        <label><input type="radio" name="rating" value="4" <?php if ($model['rating']->
getScore() == 4) {?>checked="checked" <?php }?>>4</label>
48    </div>
    <div class="radio">
50        <label><input type="radio" name="rating" value="5" <?php if ($model['rating']->
getScore() == 5) {?>checked="checked" <?php }?>>5</label>
    </div>
52    <button class="btn btn-primary">Update</button>
    <?php self::endActionForm();?>
54
    <?php }?>
56</div>
<?php self::renderView('partial/footer', $model);?>

```

../views/newrating.inc

```

1 <?php self::renderView('partial/header', $model);?>
<div class="container">
3     <h1><?php echo ($model['product']->getProductName()) ?></h1>
    By <em><?php echo ($model['product']->getManufacturer()) ?></em></br>
5     Avarage score: <?php self::htmlout($model['score'])?></br>
    <?php
7     if (isset($model['user'])) {
        self::actionLink('create rating for this product', 'Index', 'NewRating', array('pid' =>
        $model['product']->getId()));
9     }
    ?>
11    <h2>Ratings</h2>
    <table class="table">
13        <tr>
            <th>Score</th>
15            <th>Comment</th>
            <th>rating by</th>
17        </tr>
        <?php foreach ($model['ratings'] as $rating) {?>
19        <tr>
            <td>
21                <?php self::htmlout($rating->getScore())?>
            </td>
23            <td>
                <?php self::htmlout($rating->getDescription())?>
25            </td>
            <td>
27                <?php self::htmlout($rating->getUserID()); ?>
            </td>
29        </tr>
        <?php }?>
31    </table>
</div>
33<?php self::renderView('partial/footer', $model);?>

```

../views/product.inc

```

1 <?php self::renderView('partial/header', $model); ?>
<div class="container">
3     <h1>Register</h1>
5     <?php self::beginActionForm('Register', 'User', null, 'post'); ?>
    <div class="form-group">
7        <label for="userName">Username</label>
        <input class="form-control" id="userName" name="un" value="<?php self::htmlOut(
        $model['userName']); ?>">

```

```

9         </div>
10        <div class="form-group">
11            <label for="password">Password</label>
12            <input class="form-control" type="password" id="password" name="pwd">
13        </div>
14        <button class="btn btn-primary">Login</button>
15    <?php self::endActionForm(); ?>
16</div>
17<?php self::renderView('partial/footer', $model); ?>

```

../views/register.inc

```

1 <?php self::renderView('partial/header', $model);?>
2 <div class="container">
3     <h1>Your products</h1>
4     <p>
5         <table class="table">
6             <tr>
7                 <th>Name</th>
8                 <th>Manufacturer</th>
9                 <th>Action</th>
10            </tr>
11            <?php foreach ($model['products'] as $product) {?>
12            <tr>
13                <td>
14                    <?php self::actionLink($product->getProductName(), 'Index', 'Product',
15                    array('pid' => $product->getId()));?>
16                </td>
17                <td>
18                    <?php self::htmlout($product->getManufacturer()); ?>
19                </td>
20                <td>
21                    <?php self::actionLink("delete", 'Delete', 'NewProduct', array('pid' =>
22                    $product->getId()));?>
23                    <?php self::actionLink("update", 'Update', 'NewProduct', array('pid' =>
24                    $product->getId()));?>
25                </td>
26            </tr>
27            <?php }?>
28        </table>
29    </p>
30    <h1>Your ratings</h1>
31    <p>
32        <table class="table">
33            <tr>
34                <th>Product</th>
35                <th>Comment</th>
36                <th>Rating</th>
37                <th>Action</th>
38            </tr>
39            <?php foreach ($model['ratings'] as $rating) {?>
40            <tr>
41                <td>
42                    <?php self::actionLink($rating[0]->getProductName(), 'Index', 'Product',
43                    array('pid' => $rating[0]->getId()));?>
44                </td>
45                <td>
46                    <?php self::htmlout($rating[1]->getDescription()); ?>
47                </td>
48                <td>
49                    <?php self::htmlout($rating[1]->getScore()); ?>
50                </td>
51            </tr>
52        </table>
53    </p>
54 </div>

```

```

49         <?php self::actionLink("delete", 'Delete', 'NewRating', array('rid' =>
$rating[1]->getId()));?>
        <?php self::actionLink("update", 'Update', 'NewRating', array('rid' =>
$rating[1]->getId(), 'pid' => $rating[0]->getId()));?>
51     </td>
    </tr>
53 <?php }?>
</table>
55 </p>
</div>
57 <?php self::renderView('partial/footer', $model);?>

```

../views/userhome.inc

```

1 <div class="container">
    <div class="alert alert-danger" role="alert">
3        <strong>Please correct the following errors and try again:</strong>
        <ul>
5            <?php foreach($model as $errMsg): ?>
                <li><?php self::htmlOut($errMsg); ?></li>
7            <?php endforeach; ?>
        </ul>
9    </div>
</div>

```

../views/partial/errors.inc

```

<footer>
2    <div class="container">
        <p class="textmuted"><? strftime('%c'); ?></p>
4    </div>
</footer>
6    <script src="js/jquery.min.js"></script>
    <script src="js/bootstrap.min.js"></script>
8    </body>
</html>

```

../views/partial/footer.inc

```

1 <!DOCTYPE html>
<html>
3    <head>
        <meta charset="utf-8">
5        <title>Product rating portal</title>
        <link href="css/bootstrap.min.css" rel="stylesheet">
7        <link href="css/bootstrap-theme.min.css" rel="stylesheet">
        <link href="css/ratingportal.css" rel="stylesheet">
9    </head>
    <body>
11        <nav class="navbar navbar-inverse navbar-fixed-top">
            <div class="container">
13                <div class="navbar-header">
                    <button type="button" class="navbar-toggle collapsed" data-toggle="
collapse" data-target="#navbar" aria-expanded="false" aria-controls="navbar">
15                    <span class="sr-only">Toggle navigation</span>
                    <span class="icon-bar"></span>
17                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
19                </button>
                <a class="navbar-brand" href="?">RATE</a>
21            </div>
            <div id="navbar" class="collapse navbar-collapse">
23                <ul class="nav navbar-nav">

```

```

25         <?php if(isset($model['user'])) { ?>
        <li><?php self::actionLink('Home', 'Index', 'UserHome'); ?></li>
        <?php } ?>
27     </ul>
    <div class="navbar-right">
29         <?php self::renderView('partial/user', $model['user']); ?>
        </div>
31    </div>
</div>
33 </nav>
<?php if(isset($model['errors'])) {
35     self::renderView('partial/errors', $model['errors']);
} ?>

```

../views/partial/header.inc

```

<ul class="nav navbar-nav">
2 <?php if(!isset($model)): ?>
    <li><?php self::actionLink('Register', 'Register', 'User'); ?></li>
4    <li><?php self::actionLink('Login', 'LogIn', 'User'); ?></li>
<?php else: ?>
6    <li class="navbar-text">Welcome, <?php self::htmlOut($model->getUserName()); ?></li>
    <li>
8        <?php self::beginActionForm('LogOut', 'User', null, 'post', 'navbar-form'); ?>
        <button class="btn btn-link">Log out</button>
10        <?php self::endActionForm(); ?>
    </li>
12 <?php endif; ?>
</ul>

```

../views/partial/user.inc

## 1.4 Tests

Übersichtsseite der Produkte, nicht eingeloggt.

Product rating portal localhost:8080 / localh... x +

localhost:8080/www/? 120%

RATE Register Login

your filter here...

Apply

## Products

Name	Manufacturer	Rating	# Rated	created by
iPhone 5	Apple	3.8000	5	chris
iPhone 6	Apple	4.0000	4	chris
Thinkpad T460s	Lenovo	4.2000	5	elisabeth
T-800	Cyberdyne Systems	4.1667	6	hans
Kerbal Space Program	Squad	4.7500	4	hans
Civic Type R	Honda	4.1667	6	lisa
MSA 120	Stihl	4.4000	5	sepp
F-1	Rockedyne	4.0000	3	theresa
Thinkpad T460	Lenovo	3.4000	5	tom

Registrierungsmaske; Fehler bei ungültiger Eingabe.

Product rating portal localhost:8080 / localh... x +

localhost:8080/www/? 120%

RATE Register Login

Please correct the following errors and try again:

- invalid username or password

## Register

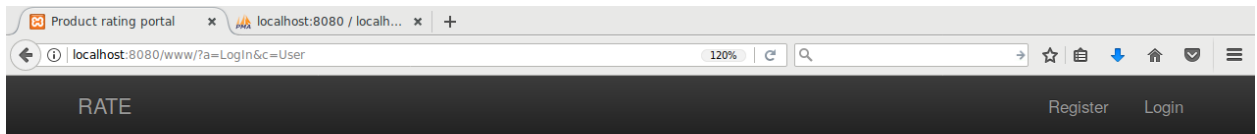
Username

ironman

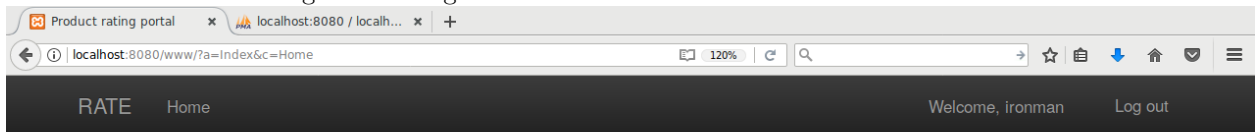
Password

Login

Nach erfolgreicher registrierung Weiterleitung auf Login-Maske.



Übersichtsseite nach erfolgreichem Login.



## Products

Name	Manufacturer	Rating	# Rated	created by
<a href="#">iPhone 5</a>	Apple	3.8000	5	chris
<a href="#">iPhone 6</a>	Apple	4.0000	4	chris
<a href="#">Thinkpad T460s</a>	Lenovo	4.2000	5	elisabeth
<a href="#">T-800</a>	Cyberdyne Systems	4.1667	6	hans
<a href="#">Kerbal Space Program</a>	Squad	4.7500	4	hans
<a href="#">Civic Type R</a>	Honda	4.1667	6	lisa
<a href="#">MSA 120</a>	Stihl	4.4000	5	sepp
<a href="#">F-1</a>	Rockedyne	4.0000	3	theresa
<a href="#">Thinkpad T460</a>	Lenovo	3.4000	5	tom

Detailansicht eines Produkts.

Product rating portal localhost:8080 / localh... x +

localhost:8080/www/?a=Index&c=Product&pid=8 120%

RATE Home Welcome, Ironman Log out

## iPhone 5

By Apple  
Average score: 3.8000  
[create rating for this product](#)

### Ratings

Score	Comment	rating by
3	could be better...	chris
4		theresa
4		sepp
4		lisa
4		elisabeth

Erstellung einer neuen Bewertung.

Product rating portal localhost:8080 / localh... x +

localhost:8080/www/?a=Index&c=NewRating&pid=8 120%

RATE Home Welcome, Ironman Log out

## New rating for iPhone 5

Comment

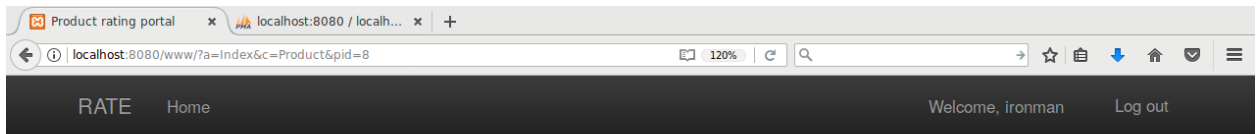
apple is overrated man

☐ 1  
☐ 2  
☐ 3  
☐ 4  
☒ 5

Create

Detailansicht mit neuer Bewertung.





## iPhone 5

By Apple

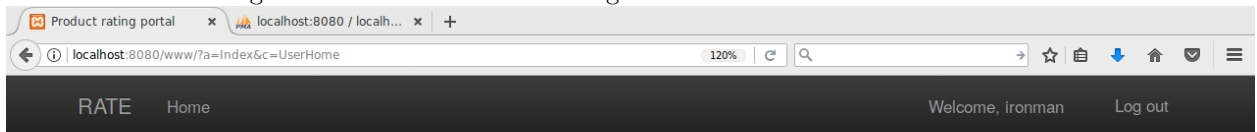
Average score: 4.0000

[create rating for this product](#)

### Ratings

Score	Comment	rating by
3	could be better...	chris
4		theresa
4		sepp
4		lisa
4		elisabeth
5	apple is overrated man	ironman

Übersicht über die eigenen Produkte und Bewertungen.



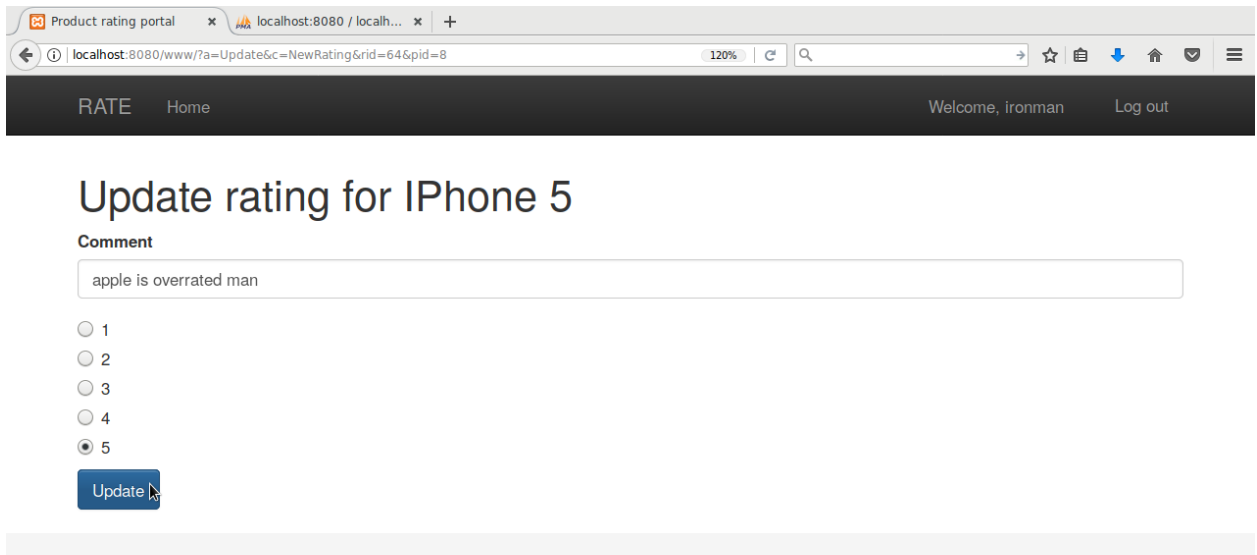
## Your products

Name	Manufacturer	Action
------	--------------	--------

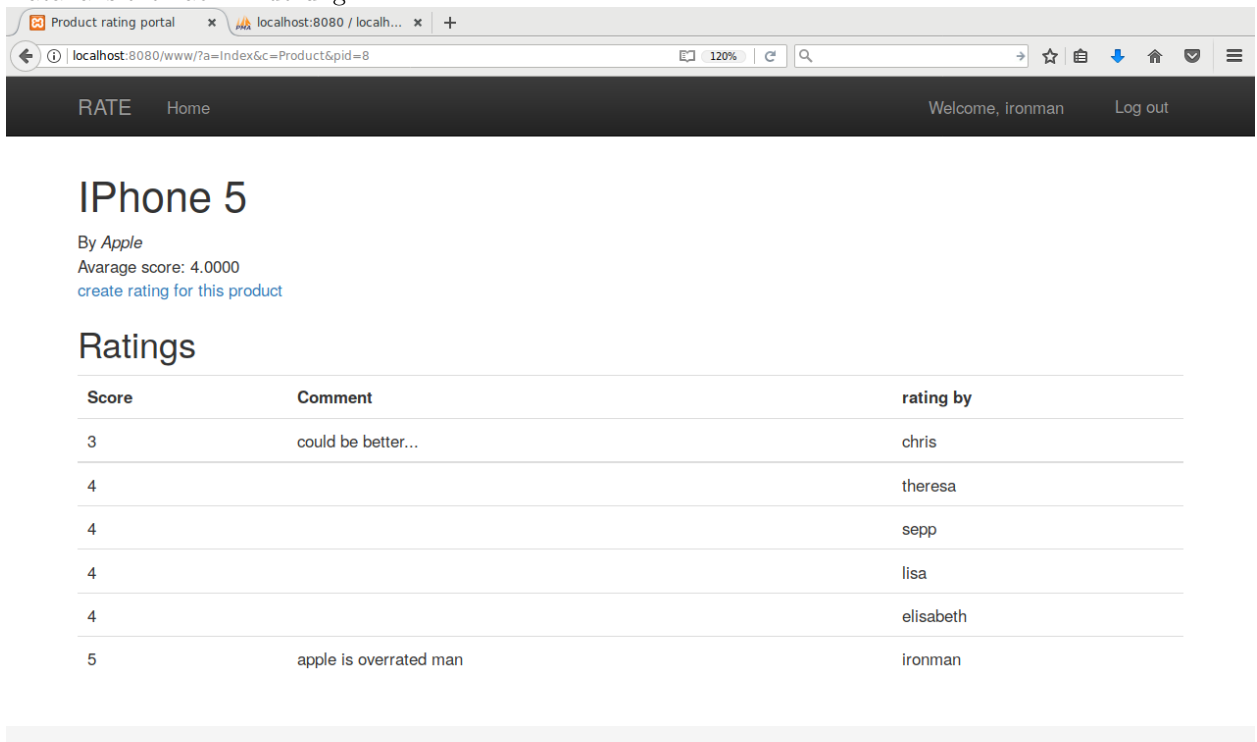
### Your ratings

Product	Comment	Rating	Action
<a href="#">iPhone 5</a>	apple is overrated man	5	<a href="#">delete</a> <a href="#">update</a>

Änderung einer Bewertung.



Datailansicht nach Änderung.



Detailansicht im ausgelogtem Zustand.

# IPhone 5

By *Apple*  
Avarage score: 4.0000

## Ratings

Score	Comment	rating by
3	could be better...	chris
4		theresa
4		sepp
4		lisa
4		elisabeth
5	apple is overrated man	ironman