PHOTO-GALLERY-RESUELTO-PROYECTO-...

sky_shadow

Introducción a la Ingeniería del Software y los Sistemas de Información II

2º Grado en Ingeniería Informática - Tecnologías Informáticas

Escuela Técnica Superior de Ingeniería Informática
Universidad de Sevilla

settings.py

```python
# Shows debug messages while Silence is running
DEBUG_ENABLED = False

# Database connection details
DB_CONN = {
    "host": "127.0.0.1",
    "port": 3306,
    "username": "iissi_user",
    "password": "iissi$user",
    "database": "gallery",
}

# The sequence of SQL scripts located in the sql/ folder that must
# be ran when the 'silence createdb' command is issued
SQL_SCRIPTS = ["create_tables.sql", "create_views.sql",
"populate_database.sql"
    # Reference your sql files here, e.g. "create_tables.sql"
]

# The port in which the API and the web server will be deployed
HTTP_PORT = 8081

# The URL prefix for all API endpoints
API_PREFIX = "/api/v1"

# Table and fields that are used for both login and register
# Uncomment this and set up your own table and columns:

USER_AUTH_DATA = {
    "table": "Users",
    "identifier": "username",
    "password": "password",
}

# A random string that is used for security purposes
# (this has been generated automatically upon project creation)
SECRET_KEY = "..."
```

web/index.html

```html
<!doctype html>
<head>
    <script src= "/js/utils/include.js"> </script> <!-- Para hacer includes
de código HTML en esta página -->
    <script>include("Layout/head.html","head")</script>
    <script src="/js/libs/bootstrap.min.js"></script>
    <script src="js/index.js" type="module"> </script> <!-- Archivo de
control .js externo -->
    <script src="js/header.js" type="module"></script>
    <script src="js/libs/axios.min.js"></script><!-- Librería externa Axios
para llamadas Ajax -->
    <title>Recent photos</title>
</head>
<body>
<header  class="container-fluid p-0">
    <script>include ("Layout/header.html", "header");</script>
    <h4 class="text-center fw-light">
        <i class="fa fa-clock-o"></i> Recent photos
    </h4>
</header>

<main class="container-fluid mt-2"> <!-- Our photos will be here -->
    <aside class="row">
        <div class="col-sm-3 p-0">
            <small><i class="fa fa-hand-pointer-o"> Click photos for
details!</i></small>
        </div>
        <div id="errors" class="col-sm-9 p-0"></div > <!-- Div de errores
para peticiones Ajax a la API REST -->
    </aside>
    <section id="divGallery" class="">
        <!-- Our rendered photos will be here -->
    </section>
</main>
<!-- Incrustar aquí cabecera común header.html con JavaScript -->
<script>include ("Layout/footer.html", "body");</script>
</body>
</html >
```

web/`login.html`

```html
<!doctype html>
<head>
    <script src= "/js/utils/include.js"> </script> <!-- Para hacer includes
de código HTML en esta página -->
    <script>include("Layout/head.html","head")</script>
    <script src="/js/libs/bootstrap.min.js"></script>
    <script src="/js/libs/axios.min.js"></script>
    <script src="/js/login.js" type="module"></script>
    <script src="js/header.js" type="module"></script>
    <title>Login</title>
</head>
<body>
<header  class="container-fluid p-0">
    <script>include ("Layout/header.html", "header");</script>
    <h4 class="text-center fw-light">
        <i class="fa fa-sign-in"></i> Login
    </h4>
</header>
<main class="container">
    <aside class= "row">
        <div id="errors" class="form-group col-md"></div>
    </aside>
    <form id="login-form">
        <section class="row">
            <article class="col-sm">
                <div class="form-group">
                    <label class="fst-italic fw-light "
for="email">Username:</label>
                    <div class="input-group">
                        <input required type="text" class="form-control"
id="username" name="username"
                               placeholder="Username">
                    </div>
                </div>
            </article>
            <article class="col-sm">
                <div class="form-group">
```

```html
                          <label class="fst-italic fw-light "
for="password">Password:</label>
                          <input required type="password" class="form-control"
id="password" name="password"
                              placeholder="Password">
                    </div>
                </article>
            </section>

            <section class= "row mt-2">
                <article class="col-sm text-center">
                    <button type= "button" class= "btn btn-danger"
onclick="window.location.href=`index.html`">
                        <i class="fa fa-home"></i>Cancel
                    </button>
                    <button type= "submit" class= "btn btn-primary">
                        <i class="fa fa-sign-in"></i>Login
                    </button>
                </article>

            </section>
        </form>
</main>
<script>include ("Layout/footer.html", "body");</script>
</body>
</html>
```

web/`register.html`

```html
<!doctype html>
<head>
    <script src= "/js/utils/include.js"> </script> <!-- Para hacer includes
de código HTML en esta página -->
    <script>include("Layout/head.html","head")</script>
    <script src="/js/libs/bootstrap.min.js"></script>
    <script src="js/register.js" type="module"></script>
    <script src="js/header.js" type="module"></script>
    <title>Sign Up</title>
</head>
<body>
<header  class="container-fluid p-0">
    <script>include ("Layout/header.html", "header");</script>
    <h4 class="text-center fw-light">
        <i class="fa fa-sign-in"></i> Sign Up
    </h4>
</header>
<main class="container">
    <form id="register-form"
action="https://www.w3schools.com/action_page.php"> <!-- Control del
formulario. Se añade id, utilizado en register.js -->
        <aside class= "row">
            <div id="errors" class="form-group mb-3 col-sm"></div>
        </aside>
        <section class= "row">
            <article class= " col-sm">
                <div class="form-group mb-3">
                    <label class="fst-italic fw-light "
for="firstname-input">First name:</label>
                    <input type="text" class= "form-control"
id="firstname-input" name="firstName"


                    >
                </div>
                <div class="form-group mb-3">
                    <label class="fst-italic fw-light "
for="lastname-input">Last name:</label>
                    <input type="text" class= "form-control"
id="lastname-input" name="lastName"
```

No son cuernos...

si tienes más de un banco
para tener aún más ventajas.

Abre también una **Cuenta NoCuenta** gratuita¹ y no te pierdas nada:

🔐 **Seguro de compra online gratis²** para tus pedidos.

✈️ Viaja y **ahorra en comisiones en el extranjero³**.

🛍️ **Descuentos exclusivos** en tus marcas favoritas.

Saber más

¹TIN 0 % y **TAE 0 %**.
²Compras superiores a 30 €
³Más info sobre el Plan de Viaje en ing.es

```html
                        >
                    </div>
                    <div class="form-group mb-3">
                        <label class="fst-italic fw-light "
for="email-input">Email:</label>
                        <input type="email" class= "form-control"
id="email-input" name="email" required>
                    </div>
                    <div class="form-group mb-3">
                        <label class="fst-italic fw-light "
for="telephone-input">Telephone:</label>
                            <select name="prefix" id="prefix-input">
                                <option value="34">Spain (+34)</option>
                                <option value="1">USA (+1)</option>
                                <option value="other">Other</option>
                            </select>
                        <input type="text" class= "form-control"
id="telephone-input" name="telephone" required>
                    </div>
                </article>

                <article class= " col-sm">
                    <div class="form-group mb-3">
                        <label class="fst-italic fw-light "
for="username-input">Username:</label>
                        <input type="text" class= "form-control"
id="username-input" name="username" required>
                    </div>
                    <div class="form-group mb-3">
                        <label class="fst-italic fw-light "
for="password-input">Password:</label>
                        <input type="password" class= "form-control"
id="password-input" name="password"

                        >
                    </div>
                    <div class="form-group mb-3">
                        <label class="fst-italic fw-light "
for="password2-input">Repeat your password:</label>
```

```html
                          <input type="password" class= "form-control"
id="password2-input" name="password2" >
                  </div>
              </article>
          </section>

          <section class= "row mt-2">
              <article class=" col-sm text-center">
                  <button type= "button" class= "btn btn-danger"
onclick="window.location.href=`index.html`">
                      <i class="fa fa-home"></i>Cancel
                  </button>
                  <button type= "submit" class= "btn btn-primary">
                      <i class="fa fa-user-plus"></i>Sign Up
                  </button>
              </article>
          </section>

      </form>
</main>
<script>include ("Layout/footer.html", "body");</script>
</body>
</html>
```

web/photo_detail.html

```html
<!DOCTYPE html>
<head>
    <script src= "/js/utils/include.js"> </script> <!-- Para hacer includes
de código HTML en esta página -->
    <script>include("Layout/head.html","head")</script>
    <script src="/js/libs/bootstrap.min.js"></script>
    <script src= "js/photo_detail.js" type="module"> </script> <!-- Archivo
de control .js externo -->
    <script src="js/header.js" type="module"></script>
    <script src="js/libs/axios.min.js"></script><!-- Librería externa Axios
para llamadas Ajax -->
    <title>Photo Detail</title>
</head>
<body>
<header  class="container-fluid p-0">
    <script>include ("Layout/header.html", "header");</script>
    <h4 class="text-center fw-light">
        <i class="fa fa-camera-retro  "></i> Photo Detail
    </h4>
</header>
<main class="container">
    <aside class= "row">
        <div id="errors" class="form-group col-sm"></div>
    </aside>
    <section class="row">
            <div id="photo-details" class="col-md-6"></div> <!-- Photo
details will be here -->
            <div id="photo-edition" class="col-md-6" title="Click on the
trash icon to clean or in a star to rate!">
            <div class="com-md-12 ">
                <button class="btn btn-secondary col-md-3 mr-1"
onclick="window.history.back()">
                    <i class="fa fa-undo mr-2"></i>Back
                </button>
                <button class="btn btn-secondary col-md-3 mr-1"
id="button-edit">
                    <i class="fa fa-edit mr-2"></i>Edit
                </button>
                <button class="btn btn-danger col-md-3" id="button-delete">
```

```html
                            <i class="fa fa-trash mr-2"></i>Delete
                        </button>
                    </div>
                    <form class="col-md-12 mt-2">
                        <select id="rating-input" name="rating" class="form-control
    col-md-8 text-success fw-bold fs-1">
                            <option value="0">(0)☆☆☆☆☆</option>
                            <option value="1">(1)★☆☆☆☆</option>
                            <option value="2">(2)★★☆☆☆</option>
                            <option value="3">(3)★★★☆☆</option>
                            <option value="4">(4)★★★★☆</option>
                            <option value="5">(5)★★★★★</option>
                        </select>
                        <button type= "submit" class= "btn btn-success col-md-3
    mt-2" disabled>
                            <i class="fa fa-send mr-2"></i>Rate
                        </button>
                    </form>
                </article>
            </section>
    </div>
    <script>include ("Layout/footer.html", "body");</script>
    </body>
    </html >
```

```
web/edit_photo.html

<!doctype html>
<head>
    <script src= "/js/utils/include.js"> </script>
    <script>include("Layout/head.html","head")</script>
    <script src="/js/libs/bootstrap.min.js"></script>
    <script src="js/edit_photo.js" type="module"> </script>
    <script src="js/header.js" type="module"></script>
    <script src="js/libs/axios.min.js"></script>
    <title>Example page</title>
</head>
<body>
<header  class="container-fluid p-0">
    <script>include ("Layout/header.html", "header");</script>
    <h4 class="text-center fw-light">
        <i class="fa fa-camera-retro  "></i> <span id="page-title">Photo
upload</span>
    </h4>
</header>
<main class="container p-0">
    <aside class= "row">
        <div id="errors" class="form-group col-sm"></div>
    </aside>
    <section class="row">
        <form id="form-photo-upload" class="col-md-6  ">
            <section class="row">
                <div class="form-floating mb-3 mt-3">
                    <input  required type="text" class="form-control "
id="input-url" name="url"
                            placeholder="Photo URL">
                    <label for="input-url">URL:</label>
                </div>
                <div class="form-floating  mb-3 mt-3">
                    <input required type="text" class="form-control"
id="input-title" name="title"
                            placeholder="Title">
                    <label for="input-title">Title:</label>
                </div>
                <div class="form-floating mb-3 mt-3">
```

```html
                        <textarea class="form-control" id="input-description"
name="description"
                                placeholder="Describe your image..."
rows="4"></textarea>
                        <label for="input-description">Description:</label>
                </div>
                <div class="form-group col-md-9">
                    <label class="radio-inline">
                        <input type="radio" checked value="Public"
class="form-check-input" id="Public_visibility" name="visibility">Public
                    </label>
                    <label class="radio-inline">
                        <input type="radio" value="Private"
class="form-check-input" id="Private_visibility" name="visibility">Private
                    </label>
                </div>
                <div class="form-group">
                    <span class="">
                        <button class="btn btn-secondary"
onclick="window.history.back()">
                            <i class="fa fa-undo
mr-1"></i><small>Undo</small>
                        </button>
                    </span>
                    <span class=" mr-2">
                        <button type="submit" class="btn btn-primary">
                            <i class="fa fa-send
mr-1"></i><small>Send</small>
                        </button>
                    </span>
                </div>
            </section>
        </form>
        <figure class="col-md-6">
            <img id="img-edit" src="images/placeholder-img.jpg"
alt="Placeholder Imagen" class="img-fluid">
        </figure>
</main>
<script>include ("Layout/footer.html", "body");</script>
</body>
</html>
```

web/Layout/header.html

```html
<div class="title-block text-center">
    <a href="index.html">
        <h1 id="title" class="text-secondary m-0 p-0 fw-light">
            <i class="fa fa-camera-retro"></i> Photo Gallery
        </h1>
    </a>
    <p id="subtitle" class="fst-italic text-secondary p-0">IISSI-2 -
University of Seville</p>
    <nav class="navbar navbar-expand-lg navbar-dark bg-dark p-0">
        <button class="navbar-toggler" type="button"
data-bs-toggle="collapse" data-bs-target="#navbarNav" >
            <span class="navbar-toggler-icon"></span >
        </button>
        <div class="collapse navbar-collapse" id="navbarNav">
            <ul class="navbar-nav"> <!-- Añadir iDs a todos los nav-item
para mostrar y ocultar en función de usuario conectado o anónimo-->
                <li class="float-end">
                    <span class="text-light">
                        <i class="fa fa-user" id="showUserName"> Guest</i>
                    </span>
                </li >
                <li>
                    <a class="nav-link" href="index.html"
id="navbar-recent">
                        <i class="fa fa-clock-o"></i> Recent photos
                    </a>
                </li>
                <li class="nav-item">
                    <a class="nav-link"href="edit_photo.html"
id="navbar-upload">
                        <i class="fa fa-upload"></i> Upload
                    </a>
                </li>
                <li class="nav-item">
                    <a class="nav-link"href="register.html"
id="navbar-register">
                        <i class="fa fa-user-plus"></i> Sign Up
                    </a>
                </li>
```

```html
                        <li class="nav-item">
                            <a class="nav-link" href="login.html"
    id="navbar-login">
                                <i class="fa fa-sign-in"></i> Login
                            </a>
                        </li>
                        <li class= "nav-item">
                            <a class= "nav-link" href= "#" id="navbar-logout">
                                <i class="fa fa-sign-out"></i> Logout
                            </a>
                        </li >
                        <li class="nav-item dropdown" id="navbar-trending">
                            <a class= "nav-link dropdown-toggle" href="#"
    id="navbarDesplegableId"
                                data-bs-toggle="dropdown" aria-haspopup="true"
    aria-expanded="false"> Trending
                            </a >
                            <div class= "dropdown-menu"
    aria-labelledby="navbarDropdownMenuLink">
                                <a class="dropdown-item disabled"
    href="trending_users.html"> Trending users</a >
                                <a class= "dropdown-item disabled"
    href="trending_photos.html"> Trending photos </a>
                            </div>
                        </li>

                </ul>
            </div>
        </nav>
    </div>
```

web/Layout/head.html

```html
<meta name= "viewport" content="width=device-width, initial-scale=1,
shrink-to-fit=no">
<link rel= "icon" href= "/images/favicon.ico">
<link rel= "stylesheet" href= "/css/bootstrap.min.css">
<link rel="stylesheet" href= "/css/font-awesome.min.css">
<link rel="stylesheet" href= "/css/style.css">
```

web/Layout/footer.html

```html
<p class="footer mt-2 text-center bg-light fw-light fst-italic"
id="footer">© IISSI-2, 2025</p>
```

web/css/style.css

```css
img.avatarUrl{
    width: 30px;
    height: auto;
    border-radius: 50%;
}
```

web/js/header.js

```javascript
"use strict";

import { messageRenderer } from './renderers/messages.js';  // Renderizador
de mensajes
import { sessionManager } from "./utils/session.js";

const showUserName = document.getElementById("showUserName");

document.addEventListener("DOMContentLoaded", main);    // Captura del
evento

async function main(){
    // alert("DOM cargado")
    addLogoutHandler(); // Manejador de logout
    showUser(); // Mostrar usuario
    hideHeaderOptions();
}

function addLogoutHandler(){
    let logoutButton = document.getElementById("navbar-logout");    //
Botón de logout
    logoutButton.onclick = function(){
        sessionManager.logout();    // Eliminar datos de Local Storage
        window.location.href = "index.html";
    }
}

function showUser(){
    if (sessionManager.isLogged()){
        showUserName.innerHTML=` Welcome #${sessionManager.getLoggedId()}
${sessionManager.getLoggedUser().username} !
            <img src="${sessionManager.getLoggedUser().avatarUrl}"
class="avatarUrl">`;
    } else {
        showUserName.innerHTML=" Welcome Guest";
    }
}
```

```javascript
function hideHeaderOptions(){
    let headerRegister = document.getElementById("navbar-register");
    let headerLogin = document.getElementById("navbar-login");
    let headerLogout = document.getElementById("navbar-logout");
    let headerRecent = document.getElementById("navbar-recent");
    let headerUpload = document.getElementById("navbar-upload");
    let headerTrending = document.getElementById("navbar-trending");

    if (sessionManager.isLogged()){
        headerRegister.style.display="none";
        headerLogin.style.display="none";
    } else {
        headerRecent.style.display="none";
        headerUpload.style.display="none";
        headerLogout.style.display="none";
        headerTrending.style.display="none";
    }
}
```

web/js/login.js

```javascript
"use strict";

import {authAPI_auto} from "./api/_auth.js"
import { messageRenderer } from './renderers/messages.js';  // Renderizador
de mensajes
import { sessionManager } from "./utils/session.js";

document.addEventListener("DOMContentLoaded", main);    // Captura del
evento

const loginForm=document.getElementById("login-form");  // Objeto para
controlar formulario de login

async function main(){
    //alert("DOM cargado")
    loginForm.onsubmit=async function(event) {
        event.preventDefault(); // Inhibe el submit
        //alert("Intercepto y bloqueo submit");
        let fD = new FormData(loginForm); // transformar en copia formData
        sendLogin(fD);
        window.location.href = "index.html";
    }
}

async function sendLogin(fD){
    // Llamada al endpoint de login
    try{
        let loginData = await authAPI_auto.login(fD);   // Llamada
bloqueante (síncrona)
        // console.log(loginData);
        sessionManager.login(loginData.sessionToken, loginData.user); //
guarda token y datos de usuario

    } catch(err){
        messageRenderer.showErrorMessage(err.response.data.message);
    }
    // Guardar datos de usuario en la memoria estable del cliente (Local
Storage)
}
```

web/js/register.js

```javascript
"use strict"; // Control estricto de errores
// alert ("Tengo control JS de register.html!");
// Importar módulos
import { messageRenderer } from "./renderers/messages.js";// Renderizador
de mensajes
import { userValidator } from "./validators/users.js";
// Constantes globales
const myForm = document.getElementById("register-form");
const divErrors = document.getElementById("errors");

/** Tomar control de DOM cargado */
function main() {
    // alert ("DOM  cargado!");
    // Controlar el submit del formulario
    myForm.onsubmit = function(event) {
        event.preventDefault(); // Inhibit el submit
        divErrors.innerHTML=""; // Limpiar errores anteriores
        let formData = new FormData(myForm); // Conversión de myForm a
FormData
        let errors = userValidator.validate(formData); // Valida el
formData y recibe array de errores
        // Tratar errores de retorno ?????
        if (errors.length !=0) {
            messageRenderer.showErrorMessage(errors.join("<br>"));
        } else {
            // alert("¡El formulario es válido");
            messageRenderer.showSuccessMessage("Form is OK!, Redirection to
home page!")
            setTimeout( function() {
                window.location.href="index.html"; // Redirección a la
página home
            }, 5000);
        }
    }
}
document.addEventListener("DOMContentLoaded", main);
```

web/js/index.js

```javascript
"use strict";                    // Nivel elevado de control de errores
import { galleryRenderer } from '/js/renderers/gallery.js'; // Renderizador
de la galería
// import { galleryPhotos } from '/js/utils/data.js'; // JSON con datos de
las fotos
import { photosAPI_auto } from './api/_photos.js'; // Métodos para acceder
con Ajax a EndPoints
import { messageRenderer } from './renderers/messages.js'; // Renderizador
de mensajes
// alert("Hola. Entro en index.js");
// console.log ("Hello , world !"); //Envío de mensajes a la consola.
Activar herramientas para desarrolladores (F12)
async function main() {
    //alert("El DOM está totalmente cargado!");
    // Acceso ajax a todas las fotos
    try {
        let galleryPhotos = await photosAPI_auto.getAll(); // Llamada al
endpoint localhost.8081/api/v1/photos
        let container = document.querySelector ("#divGallery");
        container.appendChild (galleryRenderer.asCardGallery
(galleryPhotos));
    } catch (err) { messageRenderer.showErrorMessage(err);
    }
}

document.addEventListener("DOMContentLoaded", main);
```
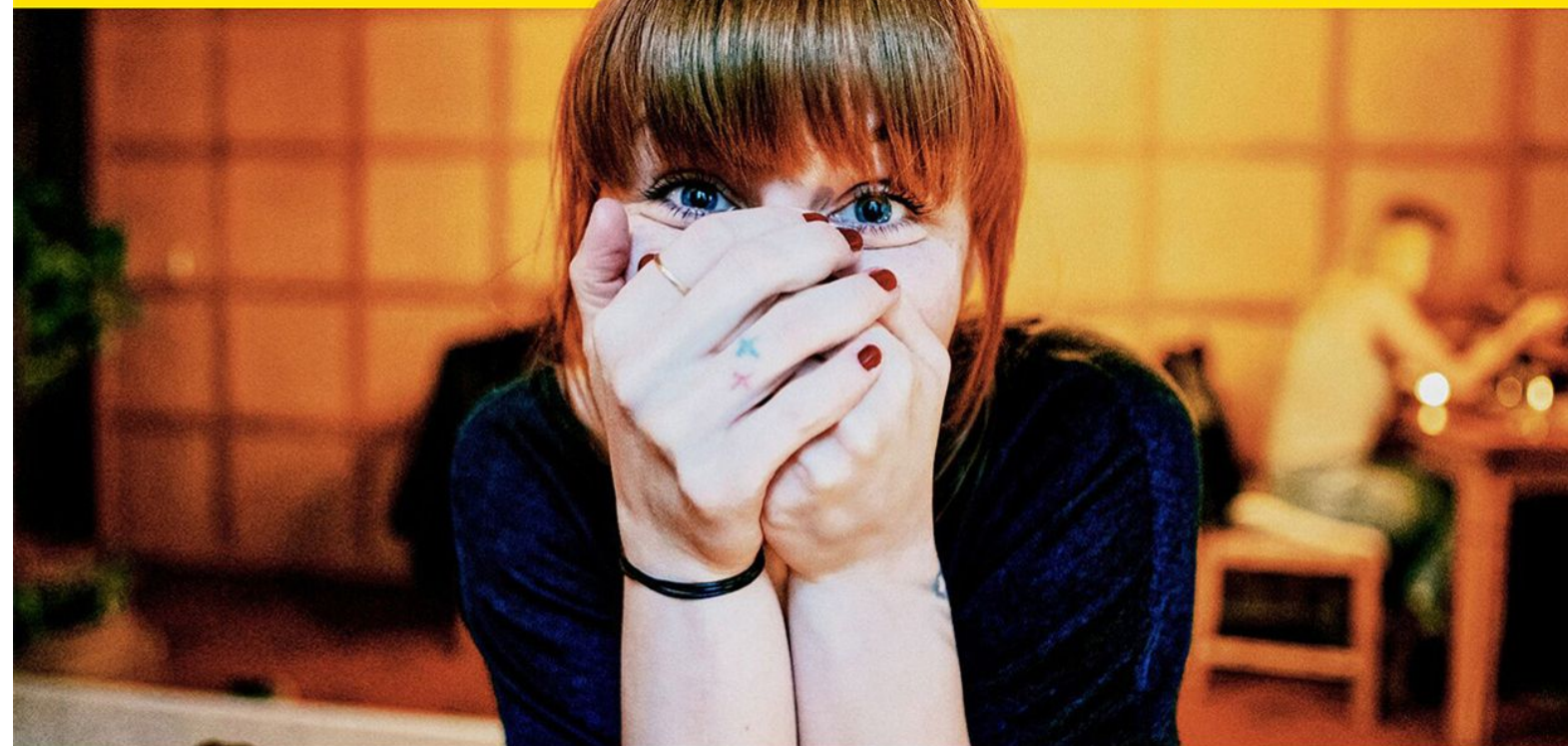
POV: quedas con alguien

y no se parece a sus fotos.

Si te pasa con un pedido, el seguro de compra online* de tu **Cuenta NoCuenta** de ING te cubre. **¡Y es gratis!**

Saber más

*Compras superiores a 30 €. Más info en ing.es

web/js/photo_detail.js

```javascript
"use strict"; // Control riguroso de errores
// import { galleryPhotos } from '/js/utils/data.js'; // JSON con datos de
las fotos
import { photosAPI_auto } from './api/_photos.js'; // Métodos para acceder
con Ajax a EndPoints
import { messageRenderer } from './renderers/messages.js'; // Renderizador
de mensajes
import { photoRenderer } from '/js/renderers/photos.js'; // Renderizador de
la galería
import { sessionManager } from "./utils/session.js";

const urlParams = new URLSearchParams(window.location.search);
const photoId = urlParams.get("photoId");
console.log(photoId);
const deleteBtn = document.getElementById("button-delete"); // Botón para
eliminar foto
const editBtn = document.getElementById("button-edit"); // Botón para
actualizar foto

async function main() {
    // alert("DOMContentLoaded en photo_detail.js");
    // console.log(galleryPhotos);
    if (!sessionManager.isLogged()){
        deleteBtn.style.display="none";
        editBtn.style.display="none";
    }
    deleteBtn.onclick = handleDelete; // Controlador de evento para borrar
    editBtn.onclick = handleEdit; // Controlador de evento para editar
    try {
        let photo = await photosAPI_auto.getById(photoId); // Llamada al
endpoint localhost.8081/api/v1/photos/<photoId>
        let photoContainer = document.getElementById("photo-details"); //
Recuperar caja de la foto
        photoContainer.appendChild (photoRenderer.asDetails (photo));
    } catch (err) { messageRenderer.showErrorMessage(err);
    }
}
```

```javascript
function handleEdit() {
    window.location.href="edit_photo.html?photoId="+photoId; // Redirección
}

async function handleDelete(event) {
    if (confirm("Do you really want to delete this photo?")) {
        try {
            await photosAPI_auto.delete(photoId); // Borrar
            window.location.href="index.html"; // Redirección
        } catch (err) { messageRenderer.showErrorMessage(err);
        }
    }
}

document.addEventListener("DOMContentLoaded", main);
```

```javascript
function handleEdit() {
    window.location.href="edit_photo.html?photoId="+photoId; // Redirección
```

web/js/edit_photo.js

```javascript
"use strict"; // Control riguroso de errores
import { photosAPI_auto } from './api/_photos.js'; // Métodos para acceder
con Ajax a EndPoints
import { messageRenderer } from './renderers/messages.js'; // Renderizador
de mensajes
import { sessionManager } from "./utils/session.js";

const photoForm = document.getElementById("form-photo-upload");
const pageTitle = document.getElementById("page-title");
const urlParams = new URLSearchParams(window.location.search);
const photoId = urlParams.get("photoId");
let currentPhoto; // Objeto con la foto en edición

async function main() {
    // alert("Tengo control en Main!");
    if (photoId !== null) { loadCurrentPhoto() }; // Cargar datos de foto a
editar
    photoForm.onsubmit = handleSubmit; // Controlador del evento submit
    if (!sessionManager.isLogged()){
        alert("Acceso no autorizado");
        window.location.href="index.html"
    }
}

async function loadCurrentPhoto() {
    pageTitle.innerHTML=`Edit photo #${photoId}`;
    const urlInput = document.getElementById("input-url"); // url de la
foto
    const titleInput = document.getElementById("input-title"); // Título de
la foto
    const descriptionInput = document.getElementById("input-description");
// Descripción de la foto
    const PublicVisibility = document.getElementById("Public_visibility");
// Visibilidad de la foto
    const PrivateVisibility =
document.getElementById("Private_visibility"); // Visibilidad de la foto
    const imgEdit = document.getElementById("img-edit"); // Imagen que
sustituye al placeHolder
    urlInput.addEventListener("change", function(event) {
```

```
            imgEdit.src = event.target.value; // Refrescar en vivo
        })


    try {currentPhoto = await photosAPI_auto.getById(photoId); // Llamada
al endpoint localhost.8081/api/v1/photos/<photoId>
            urlInput.value = currentPhoto.url;
            titleInput.value = currentPhoto.title;
            descriptionInput.value = currentPhoto.description;
            PublicVisibility.checked=(currentPhoto.visibility=="Public");
            PrivateVisibility.checked=(currentPhoto.visibility=="Private");
            imgEdit.src=currentPhoto.url;
    } catch (err) { messageRenderer.showErrorMessage(err);
    }
}


async function handleSubmit(e) {
    e.preventDefault(); // Inhibir el submit
    let myFd = new FormData(e.target); // Generar FormData a partir de
formulario en el DOM
    let ahora = ( new Date() ).toLocaleString("ja-JP").replaceAll("/", "-");
    // myFd.append("userId", 1); // Usuario por defecto. Más adelante el
usuario conectado
    myFd.append("userId", sessionManager.getLoggedId()); // Recuperar
usuario de Local Storage
    myFd.append("date", ahora);
    // Acceso ajax a POST a ./photos
    if (!currentPhoto || currentPhoto === null) { // Crear foto nueva
        try {
            let resp = await photosAPI_auto.create(myFd); // Llamada al
endpoint localhost.8081/api/v1/photos
            let newId = resp.lastId; // Recupera iD auto-incrementado de la
última foto
            window.location.href=`photo_detail.html?photoId=${newId}`;
        } catch (err) {
            console.log(err.response);

messageRenderer.showErrorMessage(JSON.stringify(err.response.data));
        }
    } else {
```

```
        try {
            await photosAPI_auto.update(myFd,photoId) ; // Llamada al
endpoint localhost.8081/api/v1/photos
            window.location.href=`photo_detail.html?photoId=${photoId}`;
        } catch (err) {

messageRenderer.showErrorMessage(JSON.stringify(err.response.data));
        }
    }

}
document.addEventListener("DOMContentLoaded", main);  // Capturar evento
DOM ready
```

```js
web/js/renderers/gallery.js
"use strict";
import { parseHTML } from "/js/utils/parseHTML.js"; // Función para crear
elementos del DOM
import { photoRenderer } from "/js/renderers/photos.js"; // Renderizador de
una photo

const galleryRenderer = {
    asCardGallery: function (photos) {
        let galleryContainer = parseHTML ('<div class="photo-gallery row
p-2 bg-light"> </div>'); // Div a incrustar en contenedor de la galería
        for ( let photo of photos ) { // Creación del Grid. Sin contador,
cada Card ocupa 4 columnas
            galleryContainer.appendChild(photoRenderer.asCard(photo)); //
Añade cards al contenedor
        }
        return galleryContainer; // Devuelve el div con todas las fotos. Se
incrustará en el conteenedor de la galería
    }
}
export { galleryRenderer };
```

web/js/renderers/photos.js

```javascript
"use strict";
import { parseHTML } from "/js/utils/parseHTML.js"; // Función para crear
elementos del DOM
const photoRenderer = {
    // 5.2 Devuelve Card para la galería
    asCard: function (photo) { // El parámetro es un objeto photo
     let html = `<div class="col-sm-3 card mb-1 p-1">
                    <div class="">
                        <a
href="photo_detail.html?photoId=${photo.photoId}">
                            <img src="${photo.url}" class="img-fluid
w-100">
                        </a>
                    </div>
                    <div class="card-body text-center m-0 p-0">
                        <h5 class="card-title m-0">#${photo.photoId}
${photo.title}</h5>
                        <p class="card-text m-0 ">${photo.description}</p>
                        <p class="card-text text-end
fst-italic"><small>(User @${photo.userId})<small></p>
                    </div>

            </div>`;
     let card = parseHTML (html);
     return card;
    },
    // 5.3 Detalles de la foto
    asDetails: function (photo) {
        let html = `<div class="card p-2">
                        <img src="${photo.url}" class="img-fluid w-100">
                        <h3>#${photo.photoId} ${photo.title}</h3>
                        <h6>${photo.description}</h6>
                        <p> Uploaded by (User <a href="user_profile.html"
class="user-link">
                            @${photo.userId}</a> on ${photo.date}),
                            <span class="badge bg-secondary p-2
fs-4">${photo.visibility}</span>
                        </p>
                    </div>`;
```

```javascript
            let photoDetails = parseHTML (html);
            return photoDetails;
        },
    };
export { photoRenderer };
```

```javascript
            let photoDetails = parseHTML (html);
            return photoDetails;
```

web/js/renderers/`messages.js`

```javascript
"use strict";

import { parseHTML } from "/js/utils/parseHTML.js";

// Aux function to get the div in which to display messages
// It's centralized here so we can change it easily in the case its ID
changes
const msgsDivID = "errors";

function getErrorsDiv() {
    return document.getElementById(msgsDivID);
}

const messageRenderer = {

    showMessageAsAlert: function (message, bootClass) {
        let html = `<div class="alert alert-${bootClass} alert-dismissible
col-md-12">
                        <button type="button" class="btn-close"
data-bs-dismiss="alert"></button>
                        ${message}
                    </div>`;
        let errorsDiv = getErrorsDiv();

        if (errorsDiv === null) {
            console.error("You tried to render the following message,
however, a " +
                `<div id="${msgsDivID}"> could not be found in your view to
show it there:`);
            console.error(message);
            return;
        }

        let messageElem = parseHTML(html);
        errorsDiv.appendChild(messageElem);
    },
```

```javascript
        showErrorMessage: function (message) {
            this.showMessageAsAlert(message, "danger");
        },

        showWarningMessage: function (message) {
            this.showMessageAsAlert(message, "warning");
        },

        showSuccessMessage: function (message) {
            this.showMessageAsAlert(message, "success");
        },
    }

    export { messageRenderer };
```

web/js/utils/include.js

```javascript
'use strict';

let include = (htmlFile, selector) => {
    let xhr = new XMLHttpRequest();
    xhr.open('GET', htmlFile, false); //Turns synchronous
    xhr.addEventListener('load', () => {
        if (xhr.readyState == 4 && xhr.status == "200") {
            document.querySelector(selector).innerHTML += xhr.responseText;
        }
        else {
            console.error(htmlFile + " does not exist");
        }
    });
    xhr.send();
}

window.include = include;
```

web/js/utils/parseHTML.js

```javascript
'use strict';

function parseHTML(str) {
    let tmp = document.implementation.createHTMLDocument();
    tmp.body.innerHTML = str;
    return tmp.body.children[0];
}

export { parseHTML };
```

```
web/js/utils/session.js
'use strict';

// Time in seconds during which the session token is valid
const TOKEN_VALIDITY_TIME = 86400;

const sessionManager = {

    login: function (sessionToken, userData) {
        localStorage.setItem("sessionToken", sessionToken);
        localStorage.setItem("sessionTokenTime", new Date().getTime());
        localStorage.setItem("loggedUserData", JSON.stringify(userData));
    },

    logout: function () {
        localStorage.removeItem("sessionToken");
        localStorage.removeItem("sessionTokenTime");
        localStorage.removeItem("loggedUserData");
    },

    getToken: function () {
        let token = localStorage.getItem("sessionToken");

        // Logout if the token has expired
        if (token !== null) {
            let currentDate = new Date().getTime();
            let tokenDate = localStorage.getItem("sessionTokenTime");
            let diff = currentDate - tokenDate;

            if (diff > TOKEN_VALIDITY_TIME * 1000) {
                console.error("The session has expired, logging out.");
                this.logout();
                token = null;
            }
        }

        return token;
    },
```

```javascript
        isLogged: function () {
            return this.getToken() !== null;
        },

        getLoggedUser: function () {
            return JSON.parse(localStorage.getItem("loggedUserData"));
        },

        getLoggedId: function () {
            return this.isLogged() ? this.getLoggedUser().userId : null;
        }
    };

    export { sessionManager };
```

web/js/validators/users.js

```javascript
'use strict';
const userValidator = {
    validate: function(fD) { // Validar el formulario en formato FormData
        let errors = [];
        let pwdPattern = /^([A-Z][0-9])\w{6,}$/; // Patrón de validación de
las password
        // Validación regla-3 passwords coincidentes
        if (fD.get("firstName").length<3 || fD.get("lastName").length<3) {
            errors.push("[err-R1] firstName & lastName length must be
greater than 3!");
        }
        if ( !pwdPattern.test( fD.get("password") ) ) {
            errors.push("[err-R2] Password pattern must be Uppercase(1c),
Number(2c), any characters and length over 8c!");
        } else if (fD.get("password") != fD.get("password2")) {
            errors.push("[err-R3] Passwords do not match!");
        }
        return errors; // Devolver errores si corresponde
    }
}

export { userValidator};
```

```sql
sql/create_tables.sql
DROP TABLE IF EXISTS BadWords;
DROP TABLE IF EXISTS Votes;
DROP TABLE IF EXISTS Comments;
DROP TABLE IF EXISTS PhotosTags;
DROP TABLE IF EXISTS Tags;
DROP TABLE IF EXISTS Photos;
DROP TABLE IF EXISTS UsersFollows;
DROP TABLE IF EXISTS Users;

CREATE TABLE Users (
    userId INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
    firstName VARCHAR(128) NOT NULL,
    lastName VARCHAR(128) NOT NULL,
    telephone VARCHAR(32) NOT NULL,
    email VARCHAR(128) NOT NULL,
    username VARCHAR(64) UNIQUE NOT NULL,
    password VARCHAR(256) NOT NULL,
    avatarUrl VARCHAR(512)
);

CREATE TABLE UsersFollows (
    id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
    followerId INT NOT NULL,
    followedId INT NOT NULL,
    FOREIGN KEY (followerId) REFERENCES Users (userId),
    FOREIGN KEY (followedId) REFERENCES Users (userId)
);

CREATE TABLE Photos (
    photoId INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
    title VARCHAR(128) NOT NULL,
    description VARCHAR(512),
    date DATETIME DEFAULT CURRENT_TIMESTAMP,
    url VARCHAR(512) NOT NULL,
    visibility VARCHAR(16) NOT NULL,
    userId INT NOT NULL,
    FOREIGN KEY (userId) REFERENCES Users (userId),
    CONSTRAINT ValidVisibility CHECK (visibility in ('Public', 'Private'))
);
```

```sql
CREATE TABLE Tags (
    tagId INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
    name VARCHAR(128) NOT NULL UNIQUE
);

CREATE TABLE PhotosTags (
    photoTagId INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
    photoId INT NOT NULL,
    tagId INT NOT NULL,
    FOREIGN KEY (photoId) REFERENCES Photos (photoId) ON DELETE CASCADE,
    FOREIGN KEY (tagId) REFERENCES Tags (tagId) ON DELETE CASCADE
);

CREATE TABLE Comments (
    commentId INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
    text VARCHAR(512) NOT NULL,
    date DATETIME DEFAULT CURRENT_TIMESTAMP,
    userId INT NOT NULL,
    photoId INT NOT NULL,
    FOREIGN KEY (userId) REFERENCES Users (userId),
    FOREIGN KEY (photoId) REFERENCES Photos (photoId)
);

CREATE TABLE Votes (
    voteId INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
    value INT NOT NULL,
    date DATETIME DEFAULT CURRENT_TIMESTAMP,
    userId INT NOT NULL,
    photoId INT NOT NULL,
    FOREIGN KEY (userId) REFERENCES Users (userId),
    FOREIGN KEY (photoId) REFERENCES Photos (photoId) ON DELETE CASCADE,
    CONSTRAINT ValidVote CHECK (VALUE IN (-1, 1)),
    CONSTRAINT OneVotePerPhoto UNIQUE (userId, photoId)
);

CREATE TABLE BadWords (
    wordId INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
    word VARCHAR(128) NOT NULL
);
```

sql/create_views.sql

```sql
CREATE OR REPLACE VIEW PhotosWithUsers AS
    SELECT P.*, U.username, U.avatarUrl
    FROM Photos P NATURAL JOIN Users U;

CREATE OR REPLACE VIEW CommentsWithUsers AS
    SELECT C.*, U.username, U.avatarUrl
    FROM Comments C NATURAL JOIN Users U;
```

sql/populate_database.sql

```sql
INSERT INTO Users
VALUES
    (1, 'Agustín', 'Borrego', '654321987', 'agu@gallery.com', 'agu',
'pbkdf2:sha256:150000$uqfMc1rm$37b2a7fc88de0ce96f3cc0c4e47915414542eac2f98f
f32e589af89f41ff5b58', 'https://github.eii.us.es/avatars/u/22?s=460'),
    (2, 'David', 'Ruiz', '987654321', 'david@gallery.com', 'druiz',
'pbkdf2:sha256:150000$tbwxky0J$0d8d6c0b7a9f46d69f3c3502178d4ac3fe1b4dafa7c3
62ccc401e9f65106b127', 'https://github.eii.us.es/avatars/u/32?s=460'),
    (3, 'Inma', 'Hernández', '456123789', 'inma@gallery.com', 'inma',
'pbkdf2:sha256:150000$RVTpLkIl$976062ffde4796faa57d73fb0abc6743fe3378495891
63cfe6e3334f477883d7', 'https://github.eii.us.es/avatars/u/38?s=460');

INSERT INTO Photos
VALUES
    (1, 'Tortilla', 'A typical Spanish tortilla. With onion, of course.',
'2012-04-23 18:25:43',
'https://comidasespanolas.com/wp-content/uploads/2019/12/Receta-de-tortilla
-espa%C3%B1ola-tradicional.jpg', 'Public', 1),
    (2, 'Samoyed', 'A very fluffy dog', '2013-04-23 18:21:43',
'https://www.dogsnsw.org.au/media/img/BrowseAllBreed/Samoyed-.jpg',
'Public', 2),
    (3, 'Coding in C#', 'A piece of very intricate code', '2020-04-23
18:20:43',
'https://pbs.twimg.com/media/Ea4HJNaXsAEbzzF?format=jpg&name=900x900',
'Public', 3),
```

```sql
    (4, 'The future society', 'This is what society would look like if PHP
didn\'t exist', '2016-05-10 18:21:43',
'https://pbs.twimg.com/media/Eeeb3R0VAAAiVCp.jpg', 'Public', 1),
    (5, 'Comfy cat', 'A drawing of a cat about to sleep', '2016-04-23
18:21:43', 'https://pbs.twimg.com/media/EZ4Z2QDUYAANA-Z?format=png',
'Public', 2),
    (6, 'Seville', 'The beautiful city of Seville, Spain', '2016-04-23
18:20:43',
'https://urbansevilla.es/wp-content/uploads/2019/03/urban-sevilla-foto-ciud
ad.jpg', 'Public', 3),
    (7, 'Mont Saint-Michel', 'An island located in Normandy, France',
'2019-04-23 18:20:43',
'https://www.timetravelturtle.com/wp-content/uploads/2019/11/Mont-St-Michel
-2019-356_new.jpg', 'Public', 2),
    (8, 'Night operations', 'A plane flying over Toronto at night',
'2020-02-28 13:33:37',
'https://www.airlive.net/wp-content/uploads/2016/09/maxresdefault-23.jpg',
'Private', 1),
    (9, 'Abstract art', 'A very weird clipart', '2015-05-01 12:23:11',
'https://clipartart.com/images/worst-clipart-ever-1.jpg', 'Private', 2),
    (10, 'Knitting', 'Very relaxing', '2019-01-12 21:30:00',
'https://cdn.shopify.com/s/files/1/0078/5065/5857/t/8/assets/62638885ceb5--
CocoKnitsBook_Appendix_Photo5_2692.jpg?1338', 'Private', 3);

INSERT INTO BadWords (word)
VALUES
    ('caca'), ('culo'), ('pedo'), ('pis');

INSERT INTO Tags
VALUES
    (1, 'photography'),
    (2, 'animals'),
    (3, 'cute'),
    (4, 'creative'),
    (5, 'cities'),
    (6, 'engineering'),
    (7, 'food'),
    (8, 'drawing'),
    (9, 'spain'),
    (10, 'flying'),
    (11, 'funny'),
```

```sql
    (12, 'futuristic'),
    (13, 'videogames');

INSERT INTO PhotosTags (photoId, tagId)
VALUES
    (1, 1), (1, 7), (1, 9),
    (2, 1), (2, 2), (2, 3),
    (3, 4), (3, 6),
    (4, 1), (4, 6), (4, 12),
    (5, 2), (5, 3), (5, 8),
    (6, 1), (6, 5), (6, 9),
    (7, 1), (7, 5),
    (8, 10), (8, 6),
    (9, 4), (9, 8),
    (10, 1), (10, 4);

INSERT INTO Comments (text, date, userId, photoId)
VALUES
    ('Delicious!', '2019-01-20 19:45:00', 2, 1),
    ('It\'s better without onion, though...', '2019-01-21 20:01:12', 3, 1),
    ('You\'re clueless', '2019-01-21 22:10:02', 2, 1),
    ('Good boy!', '2015-08-20 19:50:00', 1, 2),
    ('Looks hard...', '2020-02-28 13:37:00', 2, 3),
    ('Ole!', '2019-12-20 14:55:34', 2, 6);

INSERT INTO Votes (value, userId, photoId)
VALUES
    (+1, 1, 1), (+1, 2, 1), (+1, 3, 1),
    (+1, 1, 2), (+1, 2, 2), (+1, 3, 2),
    (-1, 2, 3), (-1, 1, 3),
    (+1, 2, 4),
    (+1, 2, 5), (+1, 3, 5),
    (+1, 1, 6),
    (+1, 1, 7), (-1, 3, 7),
    (+1, 1, 8),
    (+1, 2, 9),
    (+1, 3, 10);

INSERT INTO UsersFollows (followerId, followedId)
VALUES
    (2, 1), (3, 1), (1, 2), (1, 3);
```