

Individual Final Work

ADVANCED PROGRAMMING FOR THE INTERNET

Website subject:

The website is called The PHP Times, it is a newspaper with a modern design where authenticated users can write, edit and delete news and unauthenticated users can read them. This news pieces are organized in categories.

Features:

- A public part, visible for all visitors
- An authentication system (login)
- A private part, only for authenticated users, in which content which is visible for all visitors can be edited: can add, edit or remove contents.
- Use of DB storage
- Use of PHP sessions
- Nice appearance (good HTML layout and some CSS styling)
- Nice extras

How to use it:

The first step is to uncompress the files on your preferred web server public directory.

Then, create a database called "alu91593" and import database.sql inside.

The image shows a web interface for creating a database. It has a title "Crear base de datos" with a help icon. Below it is a text input field containing "alu91593". To the right of the input field is a dropdown menu with "Cotejamiento" selected. To the right of the dropdown is a button labeled "Crear".

Now you can write your database details like user and password on the file /components/config.php

Now you can navigate to the website using a browser.

As an example, they are two users already registered, but you can create your own by using /signup.php

Username	Password
pacos	1234
user	password

Public part: Homepage


The **PHP** TimesLoginSign upCategories ▾You are not logged in

The **PHP** Times

Your newspaper - Friday the 15th, 2020

IndexADD NEWSFEED

Nurses fighting Covid-19 seeing odd and frightening syndromes again




Nurses fighting Covid-19 seeing odd and frightening syndromes again

Categories: [coronavirus](#)

2020-05-14 21:49:35

California Democrats say 10-year rent-relief plan 'not a giveaway'




California Democrats say 10-year rent-relief plan 'not a giveaway'

Categories: [housing](#)

2020-05-14 11:30:04

Newly released incident reports detail US Navy's 'UFO' encounters

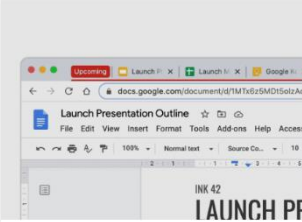


Newly released incident reports detail US Navy's 'UFO' encounters

Categories: [ufo-documents](#)

2020-05-14 11:24:19

Coming to Chrome: a new way to use tabs




Coming to Chrome: a new way to use tabs

Categories: [web](#)

2020-05-14 11:20:04



Meet the Googlers working to ensure tech is for everyone



Meet the Googlers working to ensure tech is for everyone

Categories: [web](#)

2020-05-14 11:29:17

 THE PHP TIMES 

Made with ❤ by Raúl Martínez in 2020. Template by Cirrus

Public part: Categories

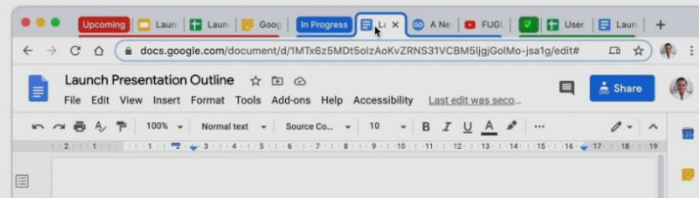
The **PHP** Times

Your newspaper - Friday the 15th, 2020

Category: web

ADD NEWSPIECE

Coming to Chrome: a new way to use tabs



Coming to Chrome: a new way to use tabs

Categories: **web**

2020-05-14 11:28:04

Meet the Googlers working to ensure tech is for everyone



Meet the Googlers working to ensure t...

Categories: **web**

2020-05-14 11:29:17

Authentication System: Login

The **PHP** Times

Login Sign up Categories ▾

You are not logged in


Login in The PHP Times

Nice to see you again 🐼

Username

Password

☐ Remember me [Create new account](#)



Simple login page with a great design. POST is used.

Authentication System: Register

The **PHP** Times

Login

Sign up

Categories ▾

You are not logged in

Register in The PHP Times

Welcome to the club. 🚀


Username

Password

Login

SIGN UP

CANCEL



When a user registers, it can start editing and writing news.

Private part: Add news piece button



The button on the top of the site enables when logged in.

Private part: Edit news piece button

Each of its three-toed feet has a claw that can be up to 4 inches or 10 centimeters long, allowing it to slice open a predator with a single kick, according to the San Diego Zoo. It can also run up to 31 miles per hour through dense forest and jump up to 7 feet (2 meters).



As you are logged in you can edit and create news.

The button appears at the end of each news when logged in.

Private part: news editor for adding

The **PHP** Times

Log out

Categories ▾

Logged in as user

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Your newspaper - Friday the 15th, 2020

You are adding a new newspiece. To create a new category just type a new word and it will be created. To add a picture you have to input a valid url.

Category:

Picture:

← RETURN

EDIT

The editor tries to preserve the design from the news viewer, that way the editor can use it without much explanations.

Private part: news editor for editing

The **PHP** Times

Log out

Categories ▾

Logged in as user

The **PHP** Times

Your newspaper - Friday the 15th, 2020

How the world's most dangerous bird got its unique feathers

2020-05-15 20:58:11

Category:

animals

Picture:

https://cdn.cnn.com/cnnnext/dam/assets/200512142626-02-cassowary-stock-exlarge-169.jpg

It's been called the world's most dangerous bird. Its long dagger-like middle toes, in fact, were responsible for the death of a man in Florida last year.

But what excites scientists about the cassowary — a large, emu-like, flightless bird — is its distinctive look. With its black iridescent feathered body, its blue, turquoise and magenta neck and horned crest or casque, it's been described as looking like a "high-fashion dinosaur."

"It's a little over a meter tall. It's pretty heavy. Their bones are dense. They definitely can cause some damage," said Chad Eliason, a staff scientist and postdoctoral fellow at the Field Museum in Chicago and an author of a new paper on the giant bird that published Wednesday in the journal Science Advances.

"There's lots of stories about dangerous kicks with their claws. They help you to realize birds are related to dinosaurs." Each of its three-toed feet has a claw that can be up to 4 inches or 10 centimeters long, allowing it to slice open a

← RETURN

EDIT

REMOVE

 **THE PHP TIMES** 

Made with ❤️ by Raúl Martínez in 2020. Template by Cirrus.

When editing a news piece, a button to delete it is displayed.
The edit.php and doEdit.php scripts handle news creation, edition and deletion.

DB Storage: Just two tables

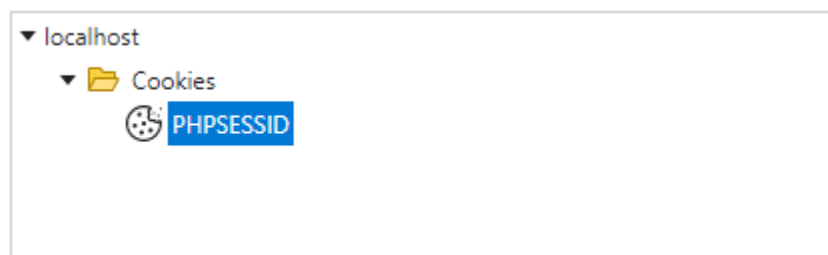
	Tabla	Acción	Filas
<input type="checkbox"/>	news	★ Examinar Estructura Buscar Insertar Vaciar Eliminar	7
<input type="checkbox"/>	users	★ Examinar Estructura Buscar Insertar Vaciar Eliminar	5
	2 tablas	Número de filas	12

id	title	summary	text	datetime	picture	category
8	Coming to Chrome: a new way to use tabs	There are two types of people in the world: tab mi...	There are two types of people in the world: tab mi...	2020-05-14 11:28:04	https://storage.googleapis.com/gweb-uniblog-publis...	web
1	Nurses fighting Covid-19 seeing odd and frightening...	The person had been relatively fine for the first ...	The person had been relatively fine for the first ...	2020-05-14 21:49:35	https://cdn.cnn.com/cnnnext/dam/assets/20051221062...	coronavirus
5	Newly released incident reports detail US Navy's ...	Newly released "hazard reports" detailin...	Newly released "hazard reports" detailin...	2020-05-14 11:24:19	https://cdn.cnn.com/cnnnext/dam/assets/18031305090...	ufo-documents
6	How the world's most dangerous bird got its unique...	It's been called the world's most dangerous bird. ...	It's been called the world's most dangerous bird. ...	2020-05-14 11:25:24	https://cdn.cnn.com/cnnnext/dam/assets/20051214262...	animals
7	Across Europe, Reopening Borders in Time for Summe...	Europeans longing to swap their balconies for beac...	Europeans longing to swap their balconies for beac...	2020-05-14 11:26:44	https://static01.nyt.com/images/2020/05/13/world/1...	coronavirus
9	Meet the Googlers working to ensure tech is for ev...	During their early studies and careers, Tiffany De...	During their early studies and careers, Tiffany De...	2020-05-14 11:29:17	https://storage.googleapis.com/gweb-uniblog-publis...	web
2	California Democrats say 10-year rent-relief plan ...	California Democrats on Tuesday proposed giving te...	California Democrats on Tuesday proposed giving te...	2020-05-14 11:30:04	https://a57.foxnews.com/static.foxnews.com/foxnews...	housing

Simple database design. Categories are defined inside news rows.

PHP Sessions

```
<?php  
session_start();
```



PHP Sessions are used to maintain the state. Very easy to implement.

Nice appearance: Cirrus framework



<https://spiderpig86.github.io/Cirrus/>

This framework was chosen because it is lightweight and has very beautiful components that we can reuse.

It should be noted that components were used but the structure is custom created based on the documentation.

Nice appearance: Custom CSS

```

custom.css
1  /* Custom CSS by Raúl
2  The current design is pretty good so improving it is hard
3  but we'll try
4
5  Remove this file to see the before design
6  */
7
8
9  /* Change footer color and padding/margin */
10 footer {
11     padding: 4rem 0;
12     background-color: #1A237E;
13     margin-top: 3rem;
14 }
15
16 /* Change footer text color */
17 footer p {
18     color: #dedede;
19 }
20
21 /* Slight tint to the menu */
22 .header {
23     background: #f6f7ff;
24 }
25
26 /* Slight tint to the menu items */
27 .nav-item.dropdown-menu {
28     background: #f6f7ff;
29 }
30
31 /* Text color on the text on the right of the menu */
32 .nav-right {
33     color: #5C6BC0;
34 }
35
36 /* Fix round avatar images and blur them */
37 .avatar img {
38     filter: blur(1px);
39     -webkit-filter: blur(1px);
40     height: 100%;
41 }
42
43 /* Blur main image on hover is cool */
44 .card-image:hover {
45     filter: blur(4px);
46     -webkit-filter: blur(4px);
47 }
48
49 /* Shaky shaky */
50 h1.u-text-center:hover {
51     animation: shake 0.5s;
52     animation-iteration-count: infinite;
53 }
54
55
56 /* Source: https://www.w3schools.com/howto/howto_css_shake_image.asp
57 @keyframes shake {
58     0% { transform: translate(1px, 1px) rotate(0deg); }
59     10% { transform: translate(-1px, -2px) rotate(-1deg); }
60     20% { transform: translate(-3px, 0px) rotate(1deg); }
61     30% { transform: translate(3px, 2px) rotate(0deg); }
62     40% { transform: translate(1px, -1px) rotate(1deg); }
63     50% { transform: translate(-1px, 2px) rotate(-1deg); }
64     60% { transform: translate(-3px, 1px) rotate(0deg); }
65     70% { transform: translate(3px, 1px) rotate(-1deg); }
66     80% { transform: translate(-1px, -1px) rotate(1deg); }
67     90% { transform: translate(1px, 2px) rotate(0deg); }
68     100% { transform: translate(1px, -2px) rotate(-1deg); }
69 }
70

```

As the design is already great, improving it is hard, but I tweaked a couple of things to demonstrate CSS knowledge.

Footer and menu colors were slightly changed, avatars were fixed and blurred, the news cards now get blurred on hover and the logo shakes when hovered. This was done on the /css/custom.css file.

Extras: Good file structure

```
| doEdit.php  
| doLogin.php  
| doLogout.php  
| doSignup.php  
| edit.php  
| favicon.ico  
| index.php  
| login.php  
| newspiece.php  
| signup.php  
|  
+---components  
| AuthService.php  
| config.php  
| News.php  
| NewsRepository.php  
| NewsService.php  
| User.php  
| UserRepository.php  
|  
+---css  
| app.css  
| cirrus.min.css  
| custom.css  
| fontawesome.css  
|  
+---img  
| login.jpg  
| signup.jpg  
|  
+---includes  
| footer.php  
| header.php  
|  
+---js  
| fontawesome.js  
| jquery-2.2.4.min.js  
| navigation.js  
|  
+---webfonts  
| fa-brands-400.ttf  
| fa-brands-400.woff  
| fa-brands-400.woff2  
| fa-regular-400.ttf  
| fa-regular-400.woff2  
| fa-solid-900.ttf
```

The structure is the following:

- Root: Essential files that are accessed directly from the browser
- Components: Classes, Services and Repositories
- CSS: Styles
- IMG: Images
- Includes: The header and footer
- JS: Scripts, only used for the mobile menu
- Webfonts: I tried to cache some fonts to avoid more networking

Extras: Responsive design, works on mobile

The **PHP** Times



The **PHP** Times

Your newspaper - Friday the 15th, 2020

Newly released incident reports detail US Navy's 'UFO' encounters

2020-05-14 11:24:19

Categories: **ufo-documents**



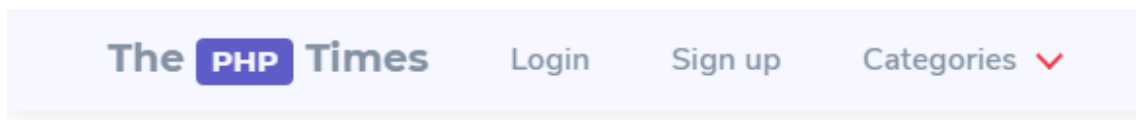
Newly released "hazard reports" detailing encounters between US Navy aircraft and "unidentified aerial phenomena" reveal details

Extras: The top menu displays links to the categories



This is done by calling `getCategories()` from the `NewsRepository`.

Extras: Unauthenticated users see a different menu



This way its more obvious that you are (or not) logged in.

Extras: The first news piece is shown on 12 columns, the rest on 6

```

48
49 $i = 1; // Mysql auto-increment starts on 1, sorry
50 foreach ($news as $newspiece) {
51
52     if($i == 1){ //For the first newspiece we display it on full width
53         echo '
54             <div class="row">
55                 <div class="col-12">';
56         }else{
57             if($i % 2 == 0){ //For the rest we open a row 1 every 2 newspieces
58                 echo '
59                     <div class="row">';
60             }
61             echo '
62                 <div class="col-6">'; //Half width newspiece
63         }
64
65         echo '

```

Figuring this was not easy, more details on index.php code.

Extras: News ids, News date and News summaries are generated automatically

```

36
37 public function updateNews($updatedNews) {
38     $newsRepository = new NewsRepository();
39     $updatedNews['summary'] = substr($updatedNews['text'], 0, 128);
40     return $newsRepository->update($updatedNews);
41 }
42

```

```

128
129 public function getNewId() {
130     // Read configuration
131     $config = require("config.php");
132     $server = $config["db"]["server"];
133     $database = $config["db"]["database"];
134     $username = $config["db"]["username"];
135     $password = $config["db"]["password"];
136
137     try {
138         // Create connection
139         $connectionString = "mysql:host=$server;dbname=$database";
140         $db = new PDO($connectionString, $username, $password);
141         $db->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
142
143         // Execute statement
144         $statement = $db->prepare("SELECT MAX(id) FROM news");
145         $statement->execute();
146
147         // Get newspiece
148         $result = $statement->fetch();
149
150         // Close connection
151         $db = null;
152
153         // Return result
154         return $result[0]+1;
155     } catch (PDOException $exception) {
156         echo $exception->getMessage();
157     }
158 }

```