



# Rush0 of the PHP Piscine

ft\_minishop

Staff 42 [piscine@42.fr](mailto:piscine@42.fr)

*Summary: Following your first week of training in PHP, you will have to create a small e-commerce website with its own data management system.*

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# Chapter 1

## Foreword

**Roger** : All right, I have everything we need.

**Roger** : Chocolate milk, cheese crisps, and some speed I just bought in the bathroom.

**Steve** : Wait, Roger, Are your sure it's a good idea?



**Roger** : I have never been more sure of anything in my life.

**Roger** : You see, everything is about moderation, now, I am going to have 5 crisps and not one more.



**Steve** : "One Leg", please, drive on the proper side of the road.

**Roger** : Why are you calling me "One Leg", do you have a problem with my legs?

**Roger** : Is that why there's a wheelchair in the car?

**Roger** : What have you done with my legs you fucking Nazi?

**Klaus** : Steeve, who is he talking to now?

**Roger** : And you, Garfield, why do you hate Mondays? You don't even work!



# Chapter 2

## General Instructions

The following instructions will be checked during the evaluation so be sure that you apply them for your project not to be graded 0.

- This rush must be coded in **PHP** [in case you were wondering].
- You are allowed to use **HTML**, **CSS** and **Javascript**.
- Pre-made HTML templates are forbidden, as well as CSS frameworks [e.g. Bootstrap]
- You can only use Javascript libraries for the bonus part.
- Errors should be handled carefully [e.g. no SQL injection should be possible if you're using a database].
- Object oriented programming is forbidden [check out mysqli procedural mode if you're using a database].
- Try to maintain a good and clear structure for your project.
- Anything that is not specifically authorized is forbidden.

You can ask your questions on the forum, on slack, etc. Good luck for this rush!

# Chapter 3

## Subject

### 3.1 Mandatory part

Following your first week of training in PHP, you will have to create a small e-commerce website. For those who don't know what an online shop is, please check the list [here](#). You will get an idea of what can be done in terms of design and features.

Your online store will be very basic, however, you will have a certain amount of mandatory features to implement.

Your online store will have the following features:

- **Data management:** You need to implement, either your own data management system [creation, modification and removal of data] in the format of your choice [e.g. **CSV**], either a database using **mysql**. The data management is a key element of the design of your website.
- **User management:** You must be able to create and delete a user account. A user can fill the basket without being identified but in order to validate it, the user must absolutely be logged in [take a look at PHP sessions].
- **The basket:** It must contain the list of products that the user wants to buy, the price and the quantity of each product, as well as the total cost. It must have a validation button to archive the order.
- **Categories and associated products:** Your website should be able to organize the products by category. A category can have multiple products and a product can belong to multiple categories. Before you start the rush, take the time to think about how you're going to manage all your data.
- **The landing page:** It's the showcase of your website. It needs to be attractive and simple for your users. It can contain the registration and login elements, the basket, a preview of some products and categories for example. Try to think of the use experience.

- **Admin section:** On this section, users with enough privileges will be able to manage the content of the website, for example view the orders - add, modify and remove articles - organize categories - manage the users, etc. You will have to think of a way to give this exclusive access to some users.

TL;DR: Users must be able to register, sign in, browse some articles, add them in their basket and validate it. Once validated, the order must be visible from the administration section.

## 3.2 Bonus part

If you have done all the mandatory part and that it's working perfectly, take a look at the following ideas that you can add to your online shop :

- Stock management
- Product specifications [they can have different colors and sizes, etc.]
- Advanced users info
- Captcha
- API
- Graphics/Statistics generation
- Printable invoice generation
- Registration/connection via OAuth

Be creative! If you lack inspiration for even more bonuses, take a look at the already existing e-commerce websites.

# Chapter 4

## Submission and peer evaluation

- You'll have to submit a file called **author** containing your usernames followed by a '\n' at the root of your repository.

```
$> cat -e auteur
xlogin$
ylogin$
$>
```

- Your website must contain at least the following files: **index.php** and **install.php**. The **index.php** file will be the entry point of your site, the **install.php** will create your database and everything you require to initialize your website.
- Only the work on your repository will be graded.
- The size of attached files [images, librairies] with the source files cannot exceed 5Mo.
- Any useless file will be penalized.