

PHP Basics

20th December 2019 - 7th January 2020

Overview

In this project you will learn the basic notions of the famous PHP language which is so used in the world of web development. What distinguishes PHP from other languages such as Javascript is that the code is executed on the server, generating HTML and sending it to the client. The client will receive the result of running the script.

Table of Contents

Project Requirements	1
Risk Management Plan	1
Tasks for the project	2
Chronogram	4
Calendar	5
Git workflow	6
Technologies used	6
File structure	6
Lessons learned	6
Incidents	6

Project Requirements

- You must use GIT
- You must use a version of PHP higher than 5.1
- Create a clear and orderly directory structure
- Both the code and the comments must be written in English
- Use the camelCase code style to define variables and functions
- In the case of using HTML, never use inline styles
- In the case of using different programming languages always define the implementation in separate terms
- Remember that it is important to divide the tasks into several sub-tasks so that in this way you can associate each particular step of the construction with a specific commit
- You should try as much as possible that the commits and the planned tasks are the same
- Delete files that are not used or are not necessary to evaluate the project.

Risk Management Plan

Every project has risks. This risks must be taken into account to improve the workflow of the project. I've listed the risks for the project, along with the impact they might have, and the priority of them.

iD	Risk	Consequence	Prob. (1-5)	imp. (1-5)	Pri. (1-25)	Mitigation approach
1	Breaking my computer	Can't do anything	1	5	5	Keep my repo work to date, look for other computers
2	Getting sick	Wouldn't be as productive	2	3	6	Eat and sleep well
3	Not concentrating	Won't com	2	5	10	Focus on the Minimum Viable

	enough					Product.
4	Unrealistic deadlines	Deadlines wouldn't be met + development shortcuts would have been taken affecting the robustness of the code	2	3	6	Be more organized with the tasks, set new deadlines.
5	Being unfocused	Loss of control over the development flow of the project	4	5	20	Focus on finishing the most important tasks only.

Tasks for the project

Defining this part is crucial to the development of the project. It is important to make a good analysis of the situation to organize the project in a good way.

1. Reading the description
 - Priority: Medium.
 - Description: Reading the description of the project to figure out the requirements and tasks to do.
 - Difficulty: 2/10
 - Time estimation: 20 min
2. Create repo
 - Priority: Medium.
 - Description: .
 - Difficulty: 2/10
 - Time estimation: 5 min.
3. Prepare documentation
 - Priority: Medium.
 - Description: Prepare documentation for the project
 - Difficulty: 2/10
 - Time estimation: 2 hr.
4. Work on print.php file
 - Priority: Medium.
 - Description: Work on all the functions of the print.php file.
 - Difficulty: 2/10
 - Time estimation: 2 hr.

5. Work on iterators.php file
 - Priority: Medium.
 - Description: work on the iterators.php file.
 - Difficulty: 5/10
 - Time estimation: 2 hr.
6. Work on operators.php file
 - Priority: Medium.
 - Description: work on the operators.php file.
 - Difficulty: 6/10
 - Time estimation: 1 hr.
7. Work on dates.php file
 - Priority: Medium.
 - Description: work on the dates.php file.
 - Difficulty: 7/10
 - Time estimation: 2 hr
8. Work on conditionals.php file
 - Priority: Medium.
 - Description: work on the conditionals.php file
 - Difficulty: 6/10
 - Time estimation: 5 min.
9. Work on types.php file
 - Priority: Medium.
 - Description: work on the types.php file
 - Difficulty: 7/10
 - Time estimation: 5 min.
10. Work on maths.php file
 - Priority: Medium.
 - Description: work on the maths.php file
 - Difficulty: 7/10
 - Time estimation: 5 min.
11. Work on functions.php file
 - Priority: Medium.
 - Description: work on the functions.php file
 - Difficulty: 6/10
 - Time estimation: 5 min.
12. Work on strings.php file
 - Priority: Medium.
 - Description: Work on the strings.php file

- Difficulty: 6/10
- Time estimation: 1 hr.

13. Work on arrays.php file

- Priority: Medium.
- Description: work on the arrays.php file
- Difficulty: 5/10
- Time estimation: 2 hr.

14. Work on php.info file

- Priority: Medium.
- Description: work on the phpinfo file
- Difficulty: 1/10
- Time estimation: 1 hr.

Chronogram

#	Wed.	Thurs.	Fri.	Sat.	Sun.
1	X				
2	X				
3	X				
4		X			
5		X			
6		X			
7			X		

8			X		
9				X	
10				X	
11				X	
12				X	
13					X
14					X
15					X

Calendar

- **Wednesday**
 - Read description
 - Create repo
 - Prepare documentation
- **Thursday:**
 - Work on print.php file
 - Work on iterators.php file
- **Friday:**
 - Work on operators.php file
 - Work on dates.php file

- Work on types.php file
- Work on maths.php file
- Work on functions.php file

- **Saturday:**
 - Work on conditionals.php file
 - Work on strings array.php file
- **Sunday:**
 - Work on phpinfo.php file
 - Work on poo.php

Git Workflow

For this project, all commits we'll be pushed directly to the Master branch. All commits will use a descriptive message, so that myself or other users can easily go to the Git version that they need to. This is very important for working in teams as it increases communication and efficiency between all members.

Technologies used

For this project, we will use the following technologies:

- HTML, Php.
- Visual Studio Code.
- Git.

Lessons learned

- PHP can do all sort of functions, it is very useful.
- Creating classes in PHP is similar to other languages

Incidents

- Little experience with PHP.
- Wasting time being unfocused.