**HANDBOOK**

**Google Developer Student Clubs Universitas Sumatera Utara**

**PHP : Server-side Scripting Language for Web Development**

1. **Google Developer Student Clubs**

Google Developer Student Clubs (GDSC) is a club community for students, designed to help them build skills and knowledge in mobile and web application development. This program is open and can be followed by all students, ranging from basic level developers, to advanced levels to improve their abilities. This program is intended to be a place for students to be able to learn and collaborate to solve problems in the development of mobile and web applications. Google Developers through the Developer Student Clubs (GDSC) program is looking for active students and students from various universities in Indonesia, both public and private. Some of the benefits obtained from this activity are getting the latest information about the Google Developers program in Indonesia, getting direct access to the Google Developer team in Indonesia and ASIA Pacific, having the opportunity to study with Googlers and Developer Experts, and collaborating with GDSC Leaders throughout Indonesia.

1. **PHP Workshop**

PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML.

Why PHP? PHP can be used on all major operating systems, including Linux, many Unix variants (including HP-UX, Solaris and OpenBSD), Microsoft Windows, macOS, RISC OS, and probably others. PHP also has support for most of the web servers today. This includes Apache, IIS, and many others.

So with PHP, you have the freedom of choosing an operating system and a web server. Furthermore, you also have the choice of using procedural programming or object-oriented programming (OOP), or a mixture of them both.

With PHP you are not limited to output HTML. PHP's abilities include outputting images, PDF files and even Flash movies generated on the fly. You can also easily output any text, such as XHTML and any other XML file. PHP can auto generate these files, and save them in the file system, instead of printing it out, forming a server-side cache for your dynamic content.

PHP is part of learning materials on GDSC USU Web Development Learning Path. In this learning path, the members of GDSC USU will be provided with some learning materials such as Workshop and Task. In the workshop, GDSC USU will invite the experts in this field to become a speaker and also help GDSC USU to provide a task for the members that are taking this learning path

1. **Details**

In this workshop, students will learn about fundamentals of PHP :

1. Basics of PHP

PHP is a server scripting language, and a powerful tool for making dynamic and interactive Web pages. PHP is a widely-used, free, and efficient alternative to competitors such as Microsoft's ASP. In this workshop, members will learn about basics of PHP, such as syntax, structure, function, etc.

1. Array

An array is a data structure that stores one or more similar types of values in a single value. For example if you want to store 100 numbers then instead of defining 100 variables it's easy to define an array of 100 length. In this workshop, you will learn about numeric arrays, associative arrays, and multidimensional arrays.

1. GET and POST

**$\_GET** and **$\_POST** are Superglobal variables in PHP which are used to collect data from HTML form and URL. In this workshop, members will learn how to collect data from a form using two methods, GET and POST. Members will see the differences and when to use it effectively.

1. Upload

A PHP script can be used with a HTML form to allow users to upload files to the server. Initially files are uploaded into a temporary directory and then relocated to a target destination by a PHP script. In this workshop, members will learn about how to upload files, save to directories, and access the files.

1. **Task**

For each live workshop, the members will be given a task to do based on the topic of the workshop. In this workshop, participants will be asked to build a students list website using PHP. This will be an ongoing task.

The website should fulfill some criteria, such as :

1. Navbar for the menu
2. A page of students list
3. A page containing form to add students
4. Edit and Delete button for each student

**Scoring System**

| Criteria | Ratings | | | Total Points |
| --- | --- | --- | --- | --- |
| Qualified | Half Qualified | Not Qualified |
| Meet the website’s criteria | 22-30 | 10-21 | <10 | 30 |
| The use of array | 16-20 | 10-15 | <10 | 20 |
| The use of GET and POST | 16-20 | 10-15 | <10 | 20 |
| Understanding of PHP | 11-15 | 5-10 | <5 | 15 |
| Creativity | 11-15 | 5-10 | <5 | 15 |
| **Total Points** | | | | 100 |

1. **Workshop Schedule**

**“*PHP : Server-side Scripting Language for Web Development*”**

**Session Form :** Learning Basic PHP for Members of GDSC USU  
 **Day/Date : Saturday, December 10th 2022**  
 **Duration :** Speaker Session 1.45 - 3.45 PM (120 minutes)

QnA Space 3.45 - 4.15 PM (30 minutes)

**Place :** Google Meet and Youtube

1. **Tools**

Here are the tools you need to prepare before attending this workshop :

* Text Editor (Visual Studio Code, Sublime Text, etc)
* XAMPP

1. **Target Participant**

All members of GDSC USU

1. **Person In Charge**

Nama : Herzinanda Putra

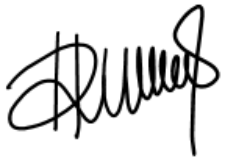
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1. **Closing**

This TOR is structured as a reference implementation of activities in general. As for the other technical matters that require revision, because of the needs of the effectiveness of activities in order to meet the maximum target of the activities that can make a positive impact on the target group, it will be arranged later.

Sincerely Yours,

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***Herzinanda Putra***

***Technical of GDSC Universitas Sumatera Utara***