**HANDBOOK**

**Google Developer Student Clubs Universitas Sumatera Utara**

**Introduction to Front-End 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. **Front-End Development Workshop**

Front-End Development describes the part of a website with which users interact directly. This development requires a developer to have several special skills, such as choosing the right programming languages and design skills. Why Front-End Development? Nowadays, there are huge demands on front-end developers as it is what a customer will use and see directly. The better a front-end is, the more customers can be attracted.

There are 3 main languages that you should know as a front end developer, such as HTML (responsible for the structure of a website), CSS (responsible for the style and design), and JavaScript (responsible for making a website more interactive). In this workshop, students will learn about how to build a website using HTML, CSS, and JavaScript.

Front-End Development is part of GDSC USU Learning Path. In this learning path, the members of GDSC USU will be provided with some learning materials such as Live Workshop and Task. In the live workshop, GDSC USU will invite the experts in the Front-End Development field to become a speaker in the live workshop 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 :

1. HTML

HTML stands for HyperText Markup Language. It is a markup language, not a programming language. It is widely used to format web pages with the help of different tags available in HTML language. We currently use the HTML-5 version which is an extension to HTML 4.01, this version was published in 2012. In this workshop, the members of GDSC USU will learn how HTML works and how to make a semantic HTML layout.

1. CSS

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of documents written in markup language such as HTML or XML. In this workshop, the members of GDSC USU will learn how to use CSS to design a simple web page.

1. JavaScript

JavaScript is a fundamental web programming language used to empower the interactivity of the front-end of a website. Front-end developers mainly utilize JavaScript to build dynamic web pages. Without JavaScript, the web would be filled with web pages only displaying raw text and one-sided without any interaction with users. In this workshop, you will learn to make an interactive website using JavaScript. You will learn to make pop-up boxes (asking questions, confirmation, alert), buttons, input boxes, etc that will respond to the user activity and dynamically update the website.

1. **Task**

For each live workshop, the member will be given a task to do based on the topic of the workshop. In this workshop, participants will be asked to build a simple personal web portfolio using HTML, CSS, and Javascript.

**Scoring System**

| Criteria | Ratings | | | Total Points |
| --- | --- | --- | --- | --- |
| Qualified | Half Qualified | Not Qualified |
| The use of HTML Tags in the web page | 20-25 | 10-19 | <10 | 25 |
| The use of CSS in designing the web page | 22-30 | 10-21 | <10 | 30 |
| Interactivity (JavaScript Implementation) | 22-30 | 10-21 | <10 | 30 |
| Creativity | 11-15 | 5-10 | <5 | 15 |
| **Total Points** | | | | 100 |

1. **Workshop Schedule**

**“*Introduction to Front-End Development*”**

**Session Form :** Learning Basic Front-End for Members of GDSC USU  
 **Day/Date : Saturday, November 19th 2022**  
 **Duration :** Session 1 2.15 - 4.00 PM (105 minutes)

QnA Space 4.00 - 4.30 PM (30 minutes)

**Place :** Zoom Meeting and Youtube

1. **Target Participant**

All members of GDSC USU

1. **Person In Charge**

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**H. Closing**

This handbook 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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***Levina Gunawan***

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