A picture containing text, clipart, porcelain

Description automatically generatedA black and white photo of a city

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**PANGASINAN STATE UNIVERSITY**

URDANETA CITY CAMPUS

SECOND SEMESTER, AY 2021-2022

LABORATORY

REPORT

CpE222 SOFTWARE DESIGN

**SUBMITTED BY**

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**SUBMITTED TO**

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**Laboratory Activity 02**

**WEBSITE DEVELOPMENT**

1. **Purpose of the document**

The purpose of documentation is to give assistance to the clients by helping them understand the usage, operation, maintenance, and limitations of a software or a hardware. This is done either using different resources such as manuals, diagrams, lists, presentations, or graphic organizers. This is either in soft-copy or hard copy. This also helps those who are doing the project with planning as it can serve as a blueprint for them. It also helps them manage their expectations with regards to the project at hand. They can estimate things such as how long the project would be done, how much will it cost, what are the resources to be used, and how many should work on the project. Documentation is also important for the boss or managers to assess the work done by their employees as it can serve as a way to see the amount of work they are doing. It can also help in keeping records so that in the future, when a similar problem occurs, documentations could help in providing solutions for a problem that is already encountered before.

1. **Description of the project**

This website is a professional website created to show future employers the skills I have. This website can also serve as a resume that future employers could check. This website includes details that can also be seen in a traditional resume. As this website is available online, it is a lot more convenient as it can be searched in the internet. Anyone with access to internet can see the website and browse details about the person. The website is not only desktop-friendly but is also tablet-friendly and mobile-friendly. It also showcases the skill of the developer as the better they are, the better their websites are.

1. **Front-end functionality**

Visitors of the site will interact with different elements such as user-entered data, buttons, applications, webpages, and other features. I use HTML and CSS as well as simple JavaScript in my Front-End Functionality. For desktop users my home page consists of a navigation bar at the top part of the webpage. That is where five buttons are found, these buttons are: HOME, SKILLS, PROJECTS, ABOUT|ME, CONTACT ME. You can click on those to get to their designated webpages but I also made sure that scrolling can also be done as it is a one page website to eliminate the hassle of going through so many webpages. For mobile users, I created a hamburger menu at the top right corner of the home page. Clicking on this would create a window which shows the five buttons. As phone screens are limited in size, the hamburger menu saves a lot of trouble and helps the users that are using their phone as the page would not look cramped.

The ‘HOME’ button, when clicked, returns the user to the homepage. The homepage also has a button called ‘PORFOLIO’ that brings the user to the project section of the webpage. The ‘SKILLS’ button will bring the user to the skills section of the website which shows the skills I learned. The ‘PROJECTS’ button will bring the user to the project section of the page where I placed the projects I was involved in. The ‘ABOUT|ME’ section is a brief introduction about me. The ‘CONTACT ME’ button is where my contact information is placed. The footer part of the website includes my social media accounts.

1. **Common features**

Some of the common features in my website are the navigation bar. There are also buttons such as the one portfolio buttons that redirects to my project section and icons that are linked to my social media account. The Instagram and Twitter are not linked as I currently do not have accounts on those platforms. I also made my website a single webpage website that can be scrolled down to avoid hassle of clicking too many buttons and going through many webpages. A download button is also placed for downloading my resume, which do not work as of now as I do not have a resume yet. I added a Gmail account as well as phone number and address in my contact information.

1. **Sitemap and website structure**

Graphical user interface

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1. **Description of every website page**
2. Home Page

-The first page that the client will see. This contains the navigation bar that can be used to help navigate the website. Contains the owner’s name as well as a greeting for the visitors.

1. Skills

-This page contains all the skills that the owner learned. This helps the client see the qualifications of the website’s owner as well as assess the capabilities of the owner.

1. Projects

-This page contains all the projects that the owner of the website is involved in. This is where the client will based their judgement on the owner of the website. This is also a portfolio that can be used to showcase the website owner’s work.

1. About|Me

-A simple introduction about the owner of the website. This does not need to have a long introduction, just a brief one. Enough that the client will have an understanding about the website’s owner.

1. Contact Me

- A contact page is a sweb page on a website that allows users and clients to contact the one that operates the website. The page includes: an e-mail address, phone numbers, and address, and social media accounts.

1. **Wireframes (home page and at least 2 other important pages)**

Diagram

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Text

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Diagram

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1. **Miscellaneous functionality**

- One miscellaneous functionality I put is a hamburger menu. This is created using a JavaScript program. The main purpose of this menu is to make the website mobile friendly. This menu prevents users using mobile phones to have a cramped-up navigation bar by putting the navigation bar in the hamburger menu.

1. **Back-end functionality**

Diagram

Description automatically generated-Currently the website does not have a back-end functionality. If a need for it arises, I would put a back-end functionality on the website.

1. **Use cases**

Watches video about one of projects

Contact through Gmail

Contact through Facebook

A user opens the website and the first thing they will see is the homepage. Through the navigation they can visit four other webpages. The skills, projects, about|me, and contact me pages. The projects webpage has a link to a video about one of the projects. The contact me page will redirect the user on how to contact the owner of the website such as gmail and facebook.

1. **Conclusion**

The good thing about professional websites is that is a convenient way of letting other people see your resume and portfolio. You just need to send the link and they can see your experiences, skills, projects, and contact information. This can help avoid hassle. Another thing is that the website itself is a proof of how good you are. So, if the website is great, it will speak for your competence. That is why, I think that having a professional website is a must.

1. **Link**

**https://shcvel.github.io/**