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Independent Science Research
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Formal Proposal

Abstract

- I plan to create a website that is based off of my non-profit organization, that will serve as a hub for all activity sign ups, communication, information storage, membership details, and the basic information about the non-profit.

Introduction & Goals

Background

1. The main source of inspiration for this project is the non-profit organization named “Belau Brighter Future Foundation” that I recently started. I would like to have a website for this nonprofit so that the board of directors, officers, members, donors, and basically anybody can have easy access to necessary information. Non-Profit Purpose -
 - a. By setting up a Non-Profit organization for the youth and by the youth, they would have something useful to do with their time that will benefit their future, and the society around them. This Non-Profit will work to find more educational opportunities, boost communal unity, promote the arts, enhance the importance of health through sports, and goodwill towards the people and the land. Not only will these activities include and benefit the youth, they will also include all willing supporters, whether it be tourists or other citizens. This Non-Profit will enhance the importance of culture & tradition, education, community, sports, productivity, and good will.

Goals

1. About
 - a. Includes all basic information about the nonprofit, its purpose, its goals, its board of directors, its achievements, and its overall plan.
2. Donate
 - a. I would like for donors and/or sponsors to have the ability to donate directly through the website.
3. Membership
 - a. Sign in/Sign out
 - i. I would like for members to have access to their own profile where they have access to “members only” information.
 - ii. They have the ability to store or share documents through the system.
 - iii. They have the ability to sign up for upcoming activities.
4. Design

- a. I would like for the overall site to look and work professionally. One site that I love to explore is our very own HPA site, mainly because it is such a beautifully made site. I would like for the website to be somewhere people want to be, and enjoy B

Essential Question

- What will this website aim to do?
 - o This website aims to become an informational hub for all who are interested, or are current members of *Belau Brighter Future Foundation*. It will give the basic information about the nonprofit such as: the purpose, mission, vision, board of directors (and how to contact them), etc. It will also allow members to sign up for planned activities so that the committee knows what to expect on the day of. Members will have their own profile where they may save pictures of themselves from the events, save a list of their community service projects while logging their hours, and save or share important documents. It will also promote critical thinking and brain storming where all members can post discussion questions for everyone to discuss, or simply new ideas for the board to consider as a means of where the nonprofit will be heading. Through the website, board members will have the ability to easily communicate with one another through a private messenger system. All of our activities, services, and accomplishments will be posted after each event.

Implementation & Challenges

Project Planning

- I came in with a simplified idea of how I would like it to function, and as I continue my research, my idea of it is evolving each day. There is no maximum for my goal, because I would like to continue to improve it as the time goes on; set new goals as I achieve the small goals step by step. To achieve these goals, I need to focus through the class periods, study hall, and free time by learning new languages of coding, learning how to improve my coding, implementing newly learned assets, and gathering useful and creative ideas from others in order to better this website.

Research & Resources

- One of my most helpful tool so far has been *CodeAcademy*. *CodeAcademy* is a website that teaches beginners how to code different types of programs step-by-step. It has taught me the beginning steps to coding a website with HTML. It also taught me that “Hyper Text Markup Language” is the standard markup language for creating web pages and web applications.
- *WW3 Schools* is another website with information about the different coding languages and how to use them properly. I reference to this when I am stuck, and it has proven to be very helpful. This is where I was introduced to CSS, and where I refreshed my memory on JavaScript.
- I recently downloaded a popular code editor called *Sublime Text* where I am able to choose a language to write in, write out the code, save it, and run it.
- I need to learn more about the different languages I need to complete building the website and which one would work the best for a certain area.

- I need to learn how to code in these different types of languages, mainly HTML, CSS, and JavaScript for now, and later expanding to other languages that would make the website work and/or look better.

Challenges

- Without question, coding is and will consistently be the hardest part of this project because I had only been in an Introduction to Programming class where we briefly learned the basics of one language.
- I anticipate having to look for syntax errors or bugs in the coding, because the code already looks like a whole bundle of grammatical errors so it would be very hard to find those small details.
- I believe the hardest steps would be coding all the complex parts of the website, such as each member having their own profile or page to log in to, or the private messenger system.

Impact & Legacy

Impact

- It will make running the nonprofit a lot easier. Everything will be in one place, and it will be an easy way to communicate with everyone.
- I will have learned a good amount of information on coding to have the ability to help kids in Palau how to code if they were interested.
- Not only will I learn how to code, I will have learned responsibility through an independent project that is completely in my control.

Legacy

- A person may want to build a website or even start a nonprofit after viewing this project.
- A logical follow up project would be an App where all the information is easier to access through a mobile device. It would increase efficiency, and accessibility.

Appendix A: Key Research Sources

- <https://www.codecademy.com/learn/make-a-website>
 - o *CodeAcademy* is a website that teaches beginners how to code different types of programs step-by-step. It has taught me the beginning steps to coding a website with HTML.
- http://www.w3schools.com/html/html_basic.asp
 - o *W3 Schools* is another website with information about the different coding languages and how to use them properly. I reference to this when I am stuck, and it has proven to be very helpful. This is where I was introduced to CSS, and where I refreshed my memory on JavaScript.
- <http://www.techsoup.org/support/articles-and-how-tos/tips-for-designing-or-redesigning-a-nonprofit-website>
 - o Techsoup gives brilliant ideas on designing a nonprofit website.
- <http://www.webdesign-inspiration.com/>
 - o Webdesign gives different templates of inspiration on web design.

Appendix B: Tools & Materials

- Critical
 - Computer to use to code
 - Website that teaches coding
 - Coding Languages
 - Code editor
- Necessary
 - Advisor (Mr. Halstead or Dr. Wiecking)
- Optional
 - none