

Project Group Category 9-03

PW Finder



Chan Darrel 1A103 (Group Leader)

Gan Wilson 1A213

Khoo Chenfeng 1A116

Low Jun Kai 1A219

Project Work Mentor: Mr Yong Jong Shyan

1.Introduction

1.1 Description of ideas

PW Finder is a website that is created so that everyone, especially Hwa Chongians can be able to find their ideal teammates or project mentor. The users are required to sign in or sign up and key in some information like their preferred category, strengths and experiences in past projects. The users can also edit their information any time when they want to.

1.2 Rationale of Project

PW Finder is invented with the aim to help Hwa Chongians and even other people who are involved in project work to find suitable teammates in the project work through a survey. This website will also aid them in discovering their suitable categories by allowing them to roughly browse through the other categories and have a rough idea of the requirements and expectations of each of the categories.

1.3 Focus and Significance of Project

The project is aimed to aid Hwa Chongians in discovering possible project group teammates and a suitable project mentor. The project can help lessen the burden of finding teammates in project work by allowing them to reach out to other Hwa Chongians looking for teammates and possibly form a project work team with each other.

1.4 Scope of the project

Primarily, the first target is Sec One Hwa Chongians. However, students from other levels will be put into consideration once there is already number of Sec Ones using the website.

2.Literature Review

2.1 Positioning of current study in the wider literature/context(Case studies)

There was the task of finding out which languages were suitable for the Website. After discussion with the Project Mentor, Mr Yong Jong Shyan, it was decided that HTML and CSS would form the backbone of the website layout. JavaScript was also chosen so that the user could have a degree of interaction with the website. Backend languages like PHP, MySQL and XAMPP were decided on so that the user could be able to save data in the database and load the data onto the website.

2.2 References/practices cited to support ideas/issues raised

Detailed video tutorials of the languages CSS, JavaScript & PHP were provided by the mentor, Mr Yong Jong Shyan so that the languages would be learnt more effectively and efficiently while HTML was learned with the help of the website.

<https://www.w3schools.com/html/default.asp>

3. The Study & Methodology

3.1 Ideation, description of study

To more thoroughly discover the problems that students faced in project work, there was a survey to make students have a platform to raise up their questions and issues. In the end, 33 Hwa Chongians had participated in the survey. They are from different consortiums, classes and even levels.

3.2 Investigations, surveys, experiments, research methods



Fig 1: Survey Results

This pie chart, Fig 1, shows the problems that participants had faced. 57.6% of the participants (19 people) responded that it is difficult to find a project mentor. 18.2% of the participants (6 people) also found it too hard to get teammates. 27.3% of respondents also said that it is hard to find an ideal group to join and work with. Lastly, conflicts are also a main problem that they face.

EXPERIENCE WHEN FORMING A PROJECT WORK GROUP.



Fig 2: Survey Results

This bar chart, Fig 2, displayed how smooth the participants' experiences were when forming a project work group. Although quite a number of responses indicated that it's quite successful to form a project group, there should also be a focus on around half of the participants that feel that it is hard to form a group or did not have a pleasant experience forming a project work group.

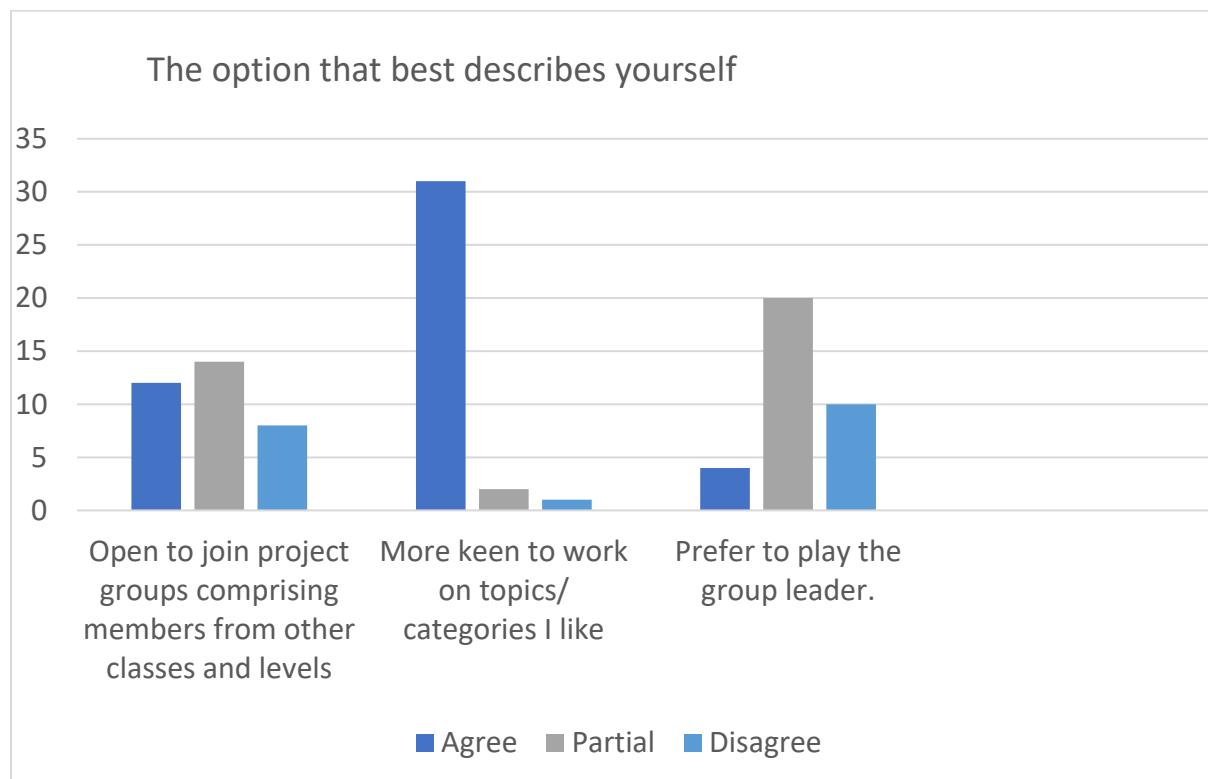


Fig 3: Survey Results

This graph, Fig 3, shows that almost everyone is keener to work on topics or categories they like. Most of them (26 respondents) do not refuse to work with people who are from different consortiums and levels. This part of the data is quite crucial too as it showed the majority's preferences. Therefore, a clear direction was found and there would be more personalized changes on the website.

Lastly, the research method used will also be mentioned below. This survey is created using Google Forms. Besides that, the use of social media such as Instagram, WhatsApp, Messenger and so on allowed the survey to cover more people and thus be able to get more responses.

3.3 Members role and job distributions

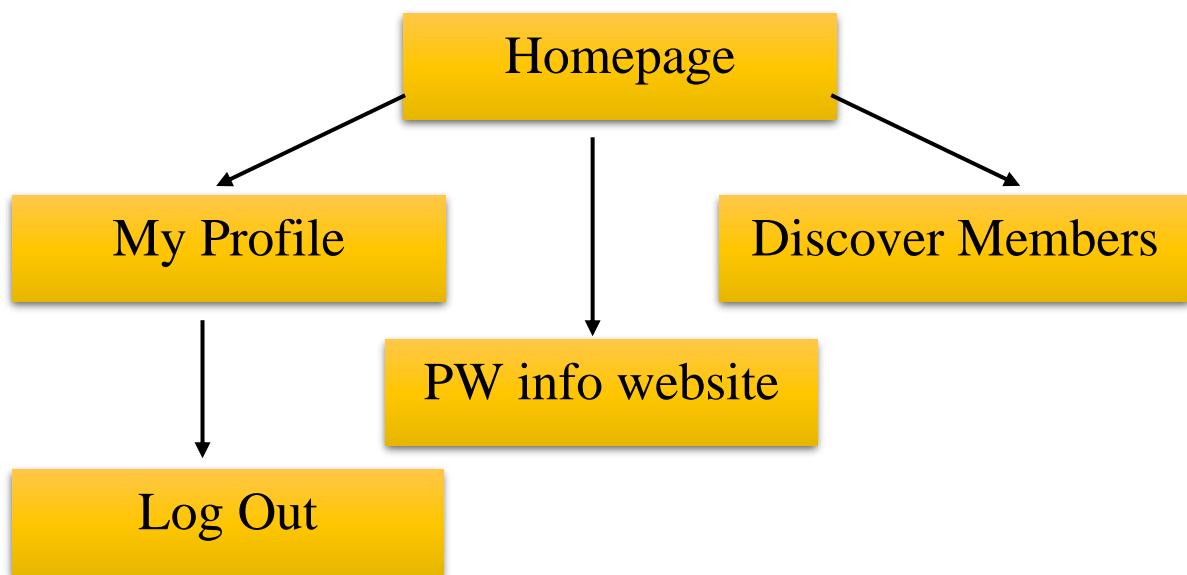
To ensure the progress of the project work, there was the implementation of work allocation among members. The group leader, Chan Darrel, is in-charge of programming HTML, CSS and JavaScript plus website design. Similar to Darrel, Low Jun Kai works on website design but is also involved in slide design. Khoo Chenfeng is responsible of server site programming such as PHP and MySQL while Gan Wilson is assigned with the tasks of slide design and data analysis.

3.4 Project timeline

There is also the project timeline for the planning of the whole year about the project work progress. Starting from March to May, the area to work on was the analysis of surveys and drafting of the website's features. After that, from May till June, the ideas were compiled together and it was the start of the final project draft. The final product, which is the website was created from July to August until the beginning of August when the final evaluation took place.

4. Outcomes, Analysis & Discussions

Flowchart below roughly shows the features of the website.



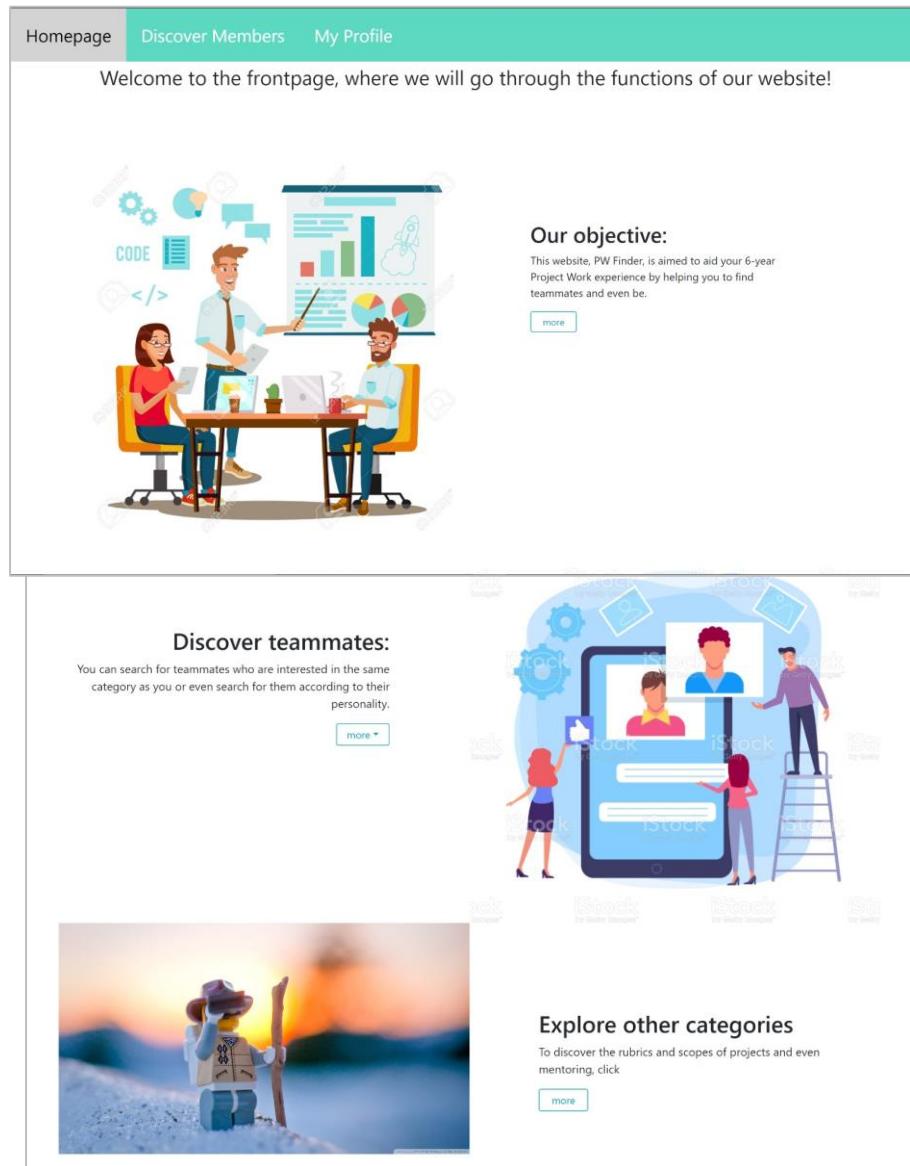


Fig 4: Website Homepage

Firstly, there are pre-allocated accounts for all users, this means that everyone in the school is privileged to the usage of this platform. Users will first enter this page which is the homepage of the website, Fig 4. In this page, it will give a rough guide on the functions of the website and there are also buttons to redirect users to pages they desire to explore.

The webpage displays four member profiles in a 2x2 grid:

- Zeff Khoo**: Cat 1: Infocomm. Description: Fierce, hardworking.
- Zeff Kool**: Cat 3: Infocomm. Description: Smart, honest.
- Zeff Khoo**: Cat 4: Infocomm. Description: Introverted, shy shy shy.
- Tenmeo**: Cat 9: Infocomm. Description: Annoying, cute.

Fig 5: Discover Members Webpage

As users click on the “Discover Members” button on the top of the website or in the homepage, they will be redirected to the webpage in Fig 5. This page is dedicated to searching for suitable members for their team by filtering their categories which they aspire to take part in. It assists in building the bridge of socializing between potential teammates to form a new group. Users can also scroll down to check on a list of Hwa Chongians who had already registered on this website and available to be contacted for project work purpose.

The form allows users to edit their profile information:

- Name:
- Experience:
- Strengths:
- Preferred Cat:
- Personality:
- Fun fact:

A "Save" button is located in the top right corner.

Fig 6: Profile Webpage

For the “My Profile” page in Fig 6, it will show a user’s particulars such as their name, preferred category and so on. If they are unsatisfied with the details saved in the database, they can edit their profile page, as to allow more personalization for users to make their own amendments.

5. Implications and Recommendations

After months of efforts, the website was finally created. However, there is also room for improvements for our website or some designed features that could not be put into the final product due to technical issues and insufficient time. One possible improvement is to make a search engine or filter function in the discover members page with more options to search for members. In future development, a function that allows JavaScript to generate a table of user information and data in the discover members page will be added. Finally, there is also a plan to add a feature which lets users to directly communicate in the website and without communicating through other platforms.

6. Conclusion

After going through the process of project work for around half a year, we have gained a fruitful lesson. We also reflected based on the project development process. These are our group’s individual reflections.

Chan Darrel

“It was a really valuable experience as the project really helped opened my eyes to programming as a whole and I finally understood how complex programming could be when we wanted to let the user interact with our website.”

Low Jun Kai

“Through the process of crafting the end product, I learnt that coding can be very sophisticated and how it can help in our future lives. Therefore, it was a beneficial learning experience.”

Khoo Chenfeng

“During the process of completing this project, as I am not experienced in programming, it gave me insights that I think are useful for the future. Besides that, I found out that teamwork is very crucial to this project and shaped me as a better person.”

Gan Wilson

“I had learnt quite a lot of things in this project. Even though I had never learnt coding before, I got to learn some of the basics through my teammates, which is a brand new

experience. Being involved in slides and website design is also rather a fresh and enjoyable experience to me.”

7. Bibliography

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<https://slidesgo.com/>

We created our HTML, CSS & JavaScript code with the help of

<https://www.w3schools.com/>

We created our HTML & CSS for our homepage with

<https://getbootstrap.com/>

We created our logo with

<https://www.wix.com/logo/maker>

Image of a Lego Man

https://images.squarespace-cdn.com/content/v1/5862e6e9beabfb318d9b5ed6/1483646784305-CF8XQZH8MPCUBBW6WP6L/ke17ZwdGBTodl8pDm48kNvT88LknE-K9M4pGNO0Iqd7gQa3H78H3Y0txjaiv_0fDoOvxcdMmMKkDsyUqMSsMWxHk725yjiHCCLfrh8O1z5QPOohDIaIejMHgDF5CVIOqpeNLcJ80NK65_fV7S1USOFn4xF8vTWDNAUBm5ducQhX-V3oVjSmr829Rco4W2Uo49ZdOtO_QXox0_W7i2zEA/explore.jpg?format=2500w

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