NDHU

Event System

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Foreword

NDHU Event System is about the process, knowledge, technologies and a step-by-step guide of what it took to Sofia and Andres to get this project done.

Through every stage of the current project, as developer of NDHU Event System, planning and time management skills have been developed along with the most important as communication between the two of us.

Since the beginning, we decided to discuss every decision to make at any stage. This is something that helped us to agree in what direction to take and also to contribute with ideas and ways to develop anything in NDHU Event System.

It has been an exciting journey that gave us the opportunity to learn new ways of web developing and also we could learned new technologies.

We would like to thank Professor 賴志宏 for trusting in us as a group and for always giving us support and for his advice on this journey.

Thanks to our friends for their support during the developing of this project.

Purpose

The purpose of this project “NDHU Event System” is to simplify the big amount of information managed for events in campus.

By using NDHU Event System, all the information regarding future and past activities will be centralized into this system allowing the user access to it at any time. For so many years, we have found out that students, foreign students most of them, do not go into the email system to look for any event information, cause there is so much information gathered together. We decided to develop a system aim only for all events in campus. It will also give opportunity to be part of any activity staff only to students of NDHU.

In this report, we will introduce and display how to use the different users that are allowed to get into NDHU Event System.

During developing this project, we intend to put all the knowledge acquired on the last for years of school and also at the same time, use our research skills on programming field to get all the information from Internet.

Through the following parts of the current report: Knowledge, methods, results and discussion, we will use a narrative approach for clearness purposes.

When developing NDHU Event System, we decided to code together, it means, to share every function on our to-do list. We aimed to learn from each other while developing so we both could improve our programming skills while developing.

Relevant

Background

Knowledge  
In order to systematically introduce NDHU Event System Knowledge section, it is divided into two main stages: Before and after.

Before NDHU Event System, while planning what it would be our DataBase, we did not have a full understanding of the complications and what we would call extensions of this project. Before NDHU Event System, the group of technologies that were planned to use were:

* HTML5
* CSS3
* Jquery
* Php
* Mysql

After we started to develop the front-end part, we realized that we could not start from scratch and needed a quick solution for basic functions so we could use less javascript and leave it to manage of data only. And this is when after discussing it, we decided to use Bootstrap 4 (front-end new technology). Afterwards, we finished one of the many changes to our DataBase design. So the next step is to start getting along with the information saved manually. We found out that a powerful tool in order to manage efficiently and in an easy way is Jquery, ajax and json data structure (background technologies adding). Back and Front End where added one to two technologies each.

Methods

When developing front and back end sections, we discussed from the beginning to keep both divided into files.

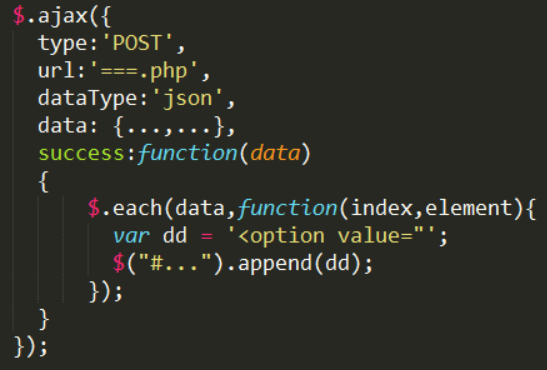
For the Back-end files, we have used files with php code only having the word “fetch” in their name also with “DB” at the end. These files have been specifically used to get all the queries from the front-end to the Database.

After catching the result of the query, we catch into an array, most of the time, and into a Json object so it can take back to the front-end, that we will see below that is directly taking it into the success or fail result of the Ajax method.

As an example of our back-end code section, we show left, one of the most common structure for the functions used on it. For security purposes, we have deleted database column names and data we consider not proper to display:



Above was shown the most common php & Json function structure used as a model for all the other functions used on this project. After information is caught and managed into a json array, it is sent to front-end file that contains html (as the visual structure and elements visibles for the user) with Jquery (code used to handled elements on html code and also to control the information sent from the back-end.



A basic structure of ajax function is shown on the right. For security purposes, data, parameters and variables have been deleted.

Every data is received as a success (it was designed that way to avoid the failed function).