

Jeffrey B. Mendoza

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CMSC 198 – AR9

Introduction

The purpose of the University of the Philippines Los Baños Office of Student Affairs Communication and Information Technology is to maintain the IT Hub in the highest possible standards. They also maintain the uplbosa.org site. They also assist students if ever they may have any problem in accessing the site or if they have any other technical problems regarding the site.

Our main duty is to develop computer systems or system components, design and maintain office databases, provide technical support to students and staff. One of our duties is to also do what our supervisor tells us to do so a set of mini projects is given from time to time.

Methodology

1. Job Fair Attendance Sheet

- Fat-Free Framework.
- The purpose of the job fair attendance sheet is to just save attendance in the database.
- Task was to save attendance (full name, contact number, course, home address, email) using the Fat-Free Framework.
- Roadblock would be getting to know the dos and don'ts of the Fat-Free Framework since it was the first time I used it.

2. Student Profile Forms

- Fat-Free Framework.
- The purpose of student profile forms is to insert student data in database and retrieve it with the correct student.
- The task was to save and retrieve student profile data.
- Roadblock is that getting data is tiresome because the student profile has a lot of data, not big but a lot.

3. Retrieval of Org Related Data

- Fat-Free Framework.
- The purpose of the retrieval of org related data is to retrieve data from the database of organizations based on the date.

- The task was to implement it in Fat-Free Framework. It is divided into three parts. The first part is to retrieve the organization members depending on their organization and if the organization member is within the range of dates given by the user. The second part is to retrieve the organization activities depending in the range of dates given by the user. The third is just to return the number of organization members in the range of dates given by the user.
- The main roadblock was to convert the SQL statements to Fat-Free Framework.

4. DTR Generation

- Fat-Free Framework.
- The purpose of the DTR generation is to make a more user-friendly interface for generating DTR
- The task was to make DTR generation user friendly as possible. I used Fullcalendar.io for DTR generation. Fullcalendar.io is a scheduler that I used and edited to make sure that the DTR generator meets its specific needs. Most of the time Fullcalendar.io can handle things like hide some days of the week or have minimum or maximum times, but some of the requirements I need to implement myself. Fullcalendar.io doesn't automatically save and delete events so a database is required. Computation of total hours is also needed to compute for total amount of how much the SA will receive in the end of the month. I also sort the dates for the DTR so that it is seen clearly and neatly.
- One of the main roadblocks was learning to use using Fullcalendar.io and knowing what it can or can't do. Saving the events in Fullcalendar.io in the database can be found on the internet, the only problem is that it is in native PHP so I have to convert it in a Fat-Free Framework.

Conclusion

For me, I think the OJT experience is the best way of learning. Practical skills is what computer science students need the most. Learning theories and algorithms may be hard to learn but most of it can easily be found on the internet. What I like about OJT is that it forces you to do stuff in an 8 hour period making most unproductive people, productive. OJT also lets you communicate with other people and let's know what they do/don't like. I think one of the best ways of learning is practice, especially in computer science practice is essential to be more efficient in working, to know the dos and don'ts is very much critical especially in the real world.



Czar John G. Demafeliz
Supervisor