



## Introduction

The COVID-19 outbreak impacting many sectors in our live, including education. Before the outbreak, you can do school admission directly at the school. But after the outbreak, you can no longer do that. You need to do things remotely through the internet.

Just like how the world changed after the outbreak started, the world also changed as the outbreak began to subside. In this project, I was tasked to change the admission system from fully online to semi online. I needed to change how to display this and that, which panel should be displayed after which. And many more.

This project was the first project that has massive and complexly intertwined data. Honestly, it was really nerve wrecking because I could not clone the data structure caused by missing tables. Which in result, I needed to work using the actual live databases. That also meant if I messed up a something, I might modify lots of data. Moreover, I needed to complete the first part of the system in a month. I estimated that I needed about a month or two to grasp the structure of parents, students, and admission databases. And in the end, I had to learn the data structure on the go.

I also made a simple PHP framework for this project. Why? Because I may create a very messy PHP program if I didn't define the guideline of the program (files management, functions and classes management, routes management, etcetera) before working on that.

This portfolio file may not contain screenshots of some menus that I deem interesting because they need data, but the data structure could not be cloned into my personal computer.

## Problems

There were many problems I faced along the way, such as,

1. Registered student did not appear on the list.
2. It took too long to switch between personal details form, especially to father's and mother's forms.
3. The school wanted to add more details into students list.
4. The school wanted to add thumbnail for document upload form.
5. The school wanted to add an input to gather the data about where parents got their information about the admission.
6. The school wanted to create an analytic page to display the data of admission.
7. The school wanted to export the data displayed on the analytic page.

## Solutions

### 1. I fixed the query.

The problem was a query I wrote. It was caused by missing parameter or mismatched logic between me and the school. For example, the school wanted the list to display new transfer student to the current academic year, but I only set the query to display upcoming academic year.

### 2. I modified the query.

This problem was a persisting problem from the previous year. I tried my best to analyse the query to make the loading time faster. It turned out that the query used too many join operations. I wrote a custom query for the system I was working on because the query is also used by other programs.

### 3. I added more information.

Previously, I added some data on the list, but the school thought it needed more data, but also less data because the list at that time was overwhelming.

### 4. I changed the form from a normal form into an AJAX form.

Previously, the form was a normal static html form. But to add thumbnail of the uploaded documents, I needed to process the document. For example, if the parent uploaded a PDF document, I needed to take the first page and use it as a thumbnail. To do that, I split the form into 4 different forms, a form for each type of document. After the user (students' parent) selects a document, the form will automatically send the document to the server. The server will check the extension of the document, is it a PDF, or an image file. If it is an image file, the server will crop a portion of the image and resize it to small but readable image and use it for the thumbnail. But, if it is a PDF file, the server will take the first page, crop a portion of that page, resize it, and use the resized portion as the thumbnail.

I used PHP Imagick extension to do all of those process.

### 5. I added the input.

The input was simply a set of checkboxes. I asked the school to list every information channel they had and put those into a set of checkboxes.

### 6. We made an analytic page.

My team and I made an analytic page containing:

- The difference between this years' and the previous two years' registrant amount.
- The amount earned from the admission and the difference with the previous two year.
- The amount of registrant on each level (pre, elementary, junior high, and senior high school).
- A chart of which information channel was the most effective to advertise the admission.
- A chart of the difference between intern registrants and extern registrants.

### 7. We made the export button.

To export the data, we used `phpoffice/phpspreadsheet` library to handle data to excel conversion.



\*Nomor telepon mohon diawali dengan 0, bukan 62

\*Password maksimal 5 karakter

→ Login

↗ Daftar Baru

🔑 Lupa Password





# Status Pendaftaran

Asalamualaikum Ayah Bunda, berikut informasi status pendaftaran Ananda di Al Muslim.



Daftar Siswa Baru



Data Calon Siswa

Detail Pembayaran Tes

# Kontak

Data terkait orang yang dapat dihubungi untuk keperluan PPDB

Hubungan dengan calon siswa Ayah	
Nama Bapak	Email
Nomor Whatsapp yang Aktif 085258430431	Nomor Alternatif

# Data Calon Siswa / Siswi

Baru  Pindahan

Tahun Ajaran 2023/2024		
Jenjang yang akan ditempuh Pilih jenjang		
Jenjang yang sedang ditempuh Pilih jenjang	Kelas sekarang Pilih kelas	
<input type="checkbox"/> Dari Al Muslim		
Asal sekolah	Alamat asal sekolah	
Nama	Nama panggilan	
<input checked="" type="radio"/> Laki-laki <input type="radio"/> Perempuan		
Tempat Lahir	Tanggal Lahir	
Alamat Domisili Jl. Jalan Yuk		
Kota / Kabupaten Surabaya	Kecamatan Krembangan	Kelurahan Krembangan Selatan
Nama ayah Bapak	Nama ibu Ibu	Nama wali

## Tahu Al Muslim Dari

- |                                      |                                      |                                  |                                 |
|--------------------------------------|--------------------------------------|----------------------------------|---------------------------------|
| <input type="checkbox"/> Facebook    | <input type="checkbox"/> Instagram   | <input type="checkbox"/> Youtube | <input type="checkbox"/> Tiktok |
| <input type="checkbox"/> Media Massa | <input type="checkbox"/> Website     | <input type="checkbox"/> Spanduk | <input type="checkbox"/> Brosur |
| <input type="checkbox"/> Kerabat     | <input type="checkbox"/> Rekan Kerja |                                  |                                 |

Lanjut →

[Data Siswa](#)[Data Ayah](#)[Data Ibu](#)[Dokumen](#)

# Data Pribadi

- Laki-laki  
 Perempuan

- Alamat Domisili Sama dengan KK

## Status dalam keluarga

- Kandung  Tiri  Angkat

## Jumlah Saudara

## Kedaaan Siswa

- Yatim  Piatu  Yatim Piatu  Lainnya

## Kewarganegaraan

- WNI  WNA  WNI Keturunan

## Kedaaan Jasmani

- Normal  Cacat

## Jarak Sekolah dari Rumah

- < 5 km  5 - 10 km  > 10 km

## Bahasa Sehari-hari

- Bahasa Indonesia  Bahasa Campuran  Bahasa Daerah  Bahasa Asing

## Status Rumah

- Rumah Sendiri  Rumah Dinas  Rumah Kontrak  Lainnya

## Golongan Darah

- O  A  B  AB

## Tinggal Bersama

- Orang Tua  Paman/Bibi  Kakek/Nenek  Lainnya

# Latar Belakang dan Status Pendidikan

[Lanjut →](#)

[Data Siswa](#)[Data Ayah](#)[Data Ibu](#)[Dokumen](#)

## Data Pribadi

NIK	Nama Lengkap	
Tempat Lahir	Tanggal Lahir	
<input type="checkbox"/> Data alamat sama dengan data anak		
Alamat Sesuai KK		
Kota / Kabupaten Sesuai KK	Kecamatan Sesuai KK	Kelurahan Sesuai KK
<input type="checkbox"/> Alamat Domisili Sama dengan KK		
Alamat Domisili		
Kota / Kabupaten Domisili	Kecamatan Domisili	Kelurahan Domisili
No Telp Rumah	No Ponsel 085258430431	

### Hubungan dengan Siswa

- Kandung  Tiri  Angkat

### Kewarganegaraan

- WNI  WNA  WNI Keturunan

### Agama

- Islam  Kristen  Katholik  
 Hindu  Buddha

### Pendidikan Formal Terakhir

- SD  SMP  SMU  
 Diploma  S1  S2

## Keterangan Pekerjaan

Pekerjaan Karyawan Swasta	
Jabatan	
Nama Perusahaan	
Alamat Perusahaan	No Telp Perusahaan

### Lama Bekerja Per Hari

- < 8 jam  8 jam  > 8 jam  
 Lainnya

### Penghasilan

- < 7,5 juta  7,5 juta - 15 juta  
 15 juta - 22,5 juta  > 22,5 juta

Jumlah Tanggungan	Usia Menikah
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### Komunikasi dengan Anak

- Sering Sekali  Sering  Jarang  
 Jarang Sekali

[Lanjut →](#)

[Data Siswa](#)[Data Ayah](#)[Data Ibu](#)[Dokumen](#)

# Unggah Dokumen

Pastikan file dapat terbaca dengan jelas.

Format yang dapat diupload: .pdf, .jpg, .jpeg, dan .png

Kartu Keluarga

Choose File No file chosen

Simpan



Akta Kelahiran

Choose File No file chosen

Simpan



Surat Keterangan Tahfidz

Choose File No file chosen

Simpan



Sertifikat Prestasi

Choose File No file chosen

Simpan



Selesai ✓