

GEOSPATIAL DATA MANAGEMENT

Project Topic:

Implementation of a database system of Hacettepe University Geomatics Engineering Department (Guide App)

- 1)Creating a database and table via PostgreSQL DBMS.
- 2)Creating a localhost site with gathering informations from our DBMS and linking this project to a web-based Project.
- 3)Writing html codes with php for the website.

NEEDED PROGRAMS FOR THE PROJECT

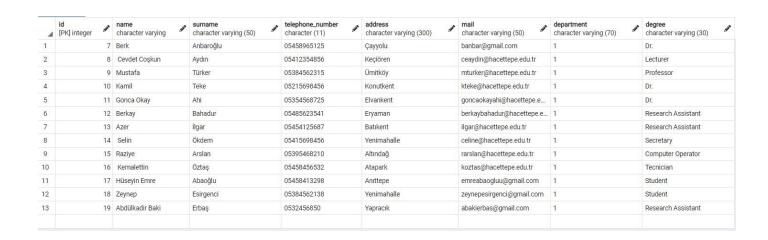
□ PostgreSQL □ XAMPP □ Apache Web Server □ Visual Studio Code

Firstly,to make a clean start I created a scheme and a flowchart that I will use as tables in PostgreSQL.

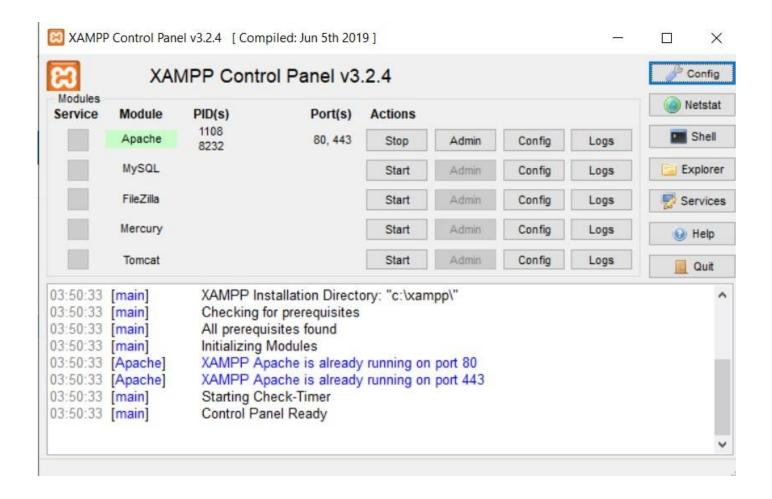


I created a database in PostgreSQL named guideApp_DB.And then I created an admin table.We added id,username and password also.The main goal for the admin panel was to control who can add,delete or change data after the creation of a web-based system.

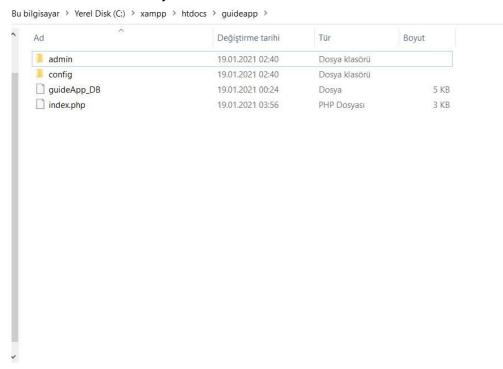
After,I created a table named teacher to add the people to our database for those who work at the Hacettepe University Geomatics Engineering Department.



Then,I installed a control panel named XAMPP.It is a web server solution stack package consisting Apache,MariaDB etc..



With this program when I activate Apache module and write localhost/guideapp the web-site works successfully.



I created a folder named GuideApp and then added admin,config and index folder for the creation of the web-site with php programming language via Visual Studio Code.

```
index.php - guideapp - Visual Studio Code
                                    m index.php × m login.php
C
    > OPEN EDITORS
    ∨ GUIDEAPP
                                           include 'config/Db.php';
      ∨ admin
      e add.php
       edit.php
                                          <!DOCTYPE html>
                                           <html lang="en">
      nogin.php
                                              <meta charset="UTF-8">
      logout.php
                                               <meta name="viewport" content="width=device-width, initial-scale=1.0">
      🐡 session.php
                                              <title>-> Guide Application <-</title>
      eteacher.php

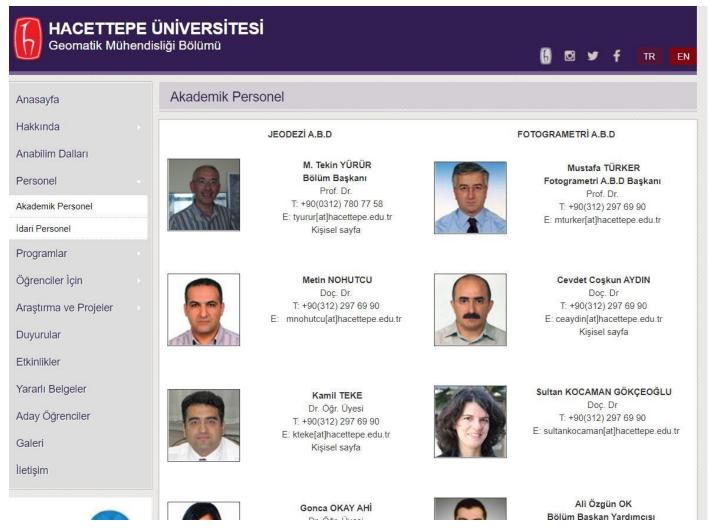
✓ config

      M Db.php
      ≡ guideApp_DB
      ndex.php
                                               <h1>Hacettepe University <br> Geomatics Engineering Department Guide App </h1>
                                            <form action="" method="get">
                                             <label for="search">Search:<label>
                                             <div class="input-group mb-3">
                                             <input name="search" type="text" class="form-control" placeholder="Recipient's username" aria-la
<select name="" id="">
                                                    <option value="1">Name</option>
                                                     <option value="1">Surname</option>
                                                   <option value="1">Name/Surname</option>
8
                                              > OUTLINE
```

For the Apache module to understand that the needed codes are written in php language we opened php tags for both the start and the end of the code.

After that,I created config.php and wrote php codes to get the datas from PostgreSQL and not to write it every time when we needed to get the information from DBMS.

As you can see from above, you need the database guideApp_DB imported to your DBMS to start the localhost/guideapp.



From

<u>-44</u> site I got the name, surname, phone number, degree and mail of the academic personnel to use it on our web-site.

Hacettepe University Geomatics Engineering Department Guide App

Search:			
Recipient's username	Name	~	Button

id	Name	Surname	Degree	Department	Telephone Number	Mail	Faculty	Adress	
7	Berk	Anbaroğlu	Dr.	1	05458965125	banbar@gmail.com	Berk	Çayyolu	
8	Cevdet Coşkun	Aydın	Lecturer	1	05412354856	ceaydin@hacettepe.edu.tr	Cevdet Coşkun	Keçiören	
9	Mustafa	Türker	Professor	1	05384562315	mturker@hacettepe.edu.tr	Mustafa	Ümitköy	
10	Kamil	Teke	Dr.	1	05215698456	kteke@hacettepe.edu.tr	Kamil	Konutkent	
11	Gonca Okay	Ahi	Dr.	1	05354568725	goncaokayahi@hacettepe.edu.tr	Gonca Okay	Elvankent	
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17	Hüseyin Emre	Abaoğlu	Student	1	05458413298	emreabaogluu@gmail.com	Hüseyin Emre	Anıttepe	
18	Zeynep	Esirgenci	Student	1	05384562138	zeynepesirgenci@gmail.com	Zeynep	Yenimahalle	

You can see the final version of our app from above.To create a good look for the design i used to BootStrap Library

 \square Head part of the index code.

Also when you write http://localhost/guideapp/admin/ it allows you to add teacher and automatically syncs the datas with the PostgreSQL at the same time.

Hacettepe University Guide App

Site Page Home Add Teacher Logout

Degree :	
Research Assistant	·
Name :	
Enter Name	
Surname :	
Enter Surname	
Telephone :	
Enter Telephone	
Email Address :	
Enter mail	
Deparment	
1	•
Adress	
Submit	

WITH OUR BEST REGARDS

References

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https://stackoverflow.com/questions/2852748/pdoexception-could-not-find-driver