IIT Dharwad Contact Directory Documentation

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1 Abstract

This file is a documentation of IIT Dharwad Contact Directory website, which was the project assigned to our team as a part of CS 213 Software Systems Lab course.

2 About the project

2.1 Title

IIT Dharwad Contact Directory
(Internal Phone Database)

2.2 Team Members

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2.3 Instructor

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3 Objective

The objective of this project is to:

- Develop a website which contains the contact details of users in a database and displays these details when accessed by the user.

- These records should be searchable by name, department and email ID.

- Features to add, modify and delete records should be avaialble in the website, for a logged-in user.

- The website should be secure.

4 Languages Used

The following languages have been used to implement this project.

- HTML

- PHP

- SQL

- JavaScript

- CSS

- Bootstrap Library

5 Project Layout

5.1 Database end

- SQL is used to create and manage the databases which store and manipulate the data.

- PHP is the intermediary between the database and the server.

5.2 Server end

- PHP is be used for establishing communication channel between the database and server.

- A local host (LAMP Server) is set up temporarily for this purpose.

5.3 Client end

- HTML, CSS and Bootstrap library are used to design the webpage.

- JavaScript and PHP power the functionalities of the webpage.

6 Website Architecture

The following figure summarizes the website architecture we have adopted.
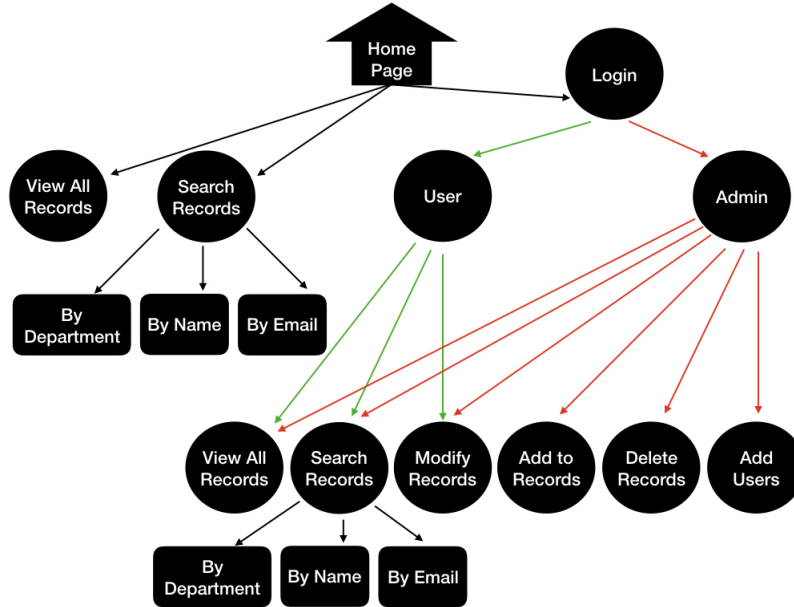
7 Program files and their description

7.1 login.php

This file creates a database for storing the records added through the website. It also serves as a header file called by the other files in this program, for accessing the database.

7.2 signup.php

This file creates a database for storing the login credentials of the users added by the admin. The credentials are stored in plaintext in the database and are not hashed. It is also called by some files as a header file.

7.3 pro0.x.php

The files under this category include the index and login pages of the website. Also, these are the ony files which can be accessed directly by typing their url in the browser, while running the website.

7.4   pro1.0.php

This file codes for the logged-in user home page. It contains the code for referring to various other pages of the website, which could be accessible only through this page. This page can be accessed by logging in as *User*.

7.5   pro1.php

This file codes for the admin home page. It contains the code for referring to various other pages of the website, which could be accessible only through this page. This page can be accessed by logging in as *Admin*.

7.6   pro2.x.php

These files dispay all the records stored in the database and are accessed by clicking on *View All Records* on different pages of this website.

7.7   pro3.x.php

These files display the page for adding new records to the database. This feature is currently available only with the admin (pro3.php) and disabled for the logged-in-user(pro3.1.php). These files can be accessed by clicking on *Add to Records*.

7.8   pro4.x.php

These files are accessed when clicked on *Add to Records* and run the code for adding a record to the database, based on the input received through the form.

7.9   pro5.php

This file contains the code for displaying the page for deleting records. It is accessible only to the admin by clicking on *Delete Records*. Pop-up alert boxes are placed at appropriate places to ensure that the admin deletes the file in full conscience.

7.10   pro6.php

This file is accessed when clicked on *Delete Records* by the admin and runs the code for deleting the record as specified by the admin. Pop-up alert boxes are placed at appropriate levels to ensure that the admin deletes the record in full conscience.

7.11 pro8.x.php

These files display the search page containing Name-Search, Department-Search & Email-Search and can be accesssed by clicking on *Search Records* on differnt pages in this website.

7.12 pro9.x.php

These files are accessed when clicked on *Search Records by Department* and print the required record(s) on the screen based on the input department.

7.13 pro10.x.php

These files are accessed when clicked on *Search Records by Name* and print the required record(s) on the screen based on the input name string.

7.14 pro8.5.php, pro8.1.5.php and pro10.0.5.php

These files are accessed when clicked on *Search Records by Email* and print the required record(s) on the screen based on the input email string.

7.15 promod.php and promod1.php

These files display the pages for modification of records in the admin and user side respectively. Pop-up alerts are placed at appropriate places to ensure that adequate and correct details are provided for modification.

7.16 prochange.php and prochange1.php

These files are accessed when clicked on *Modify Records* by the admin and the user respectively. These files check for the existing record in the database and update that record in the database with the new added details.

7.17 signup1.php

This file contains the form for the admin to add new users. It can be accessed by clicking on *Add Users*.

7.18 signup2.php

This file gets accessed when clicked on *Add Users* and runs the code for adding the user credentials to the database, based on the input received through the form.

8 Website Features

8.1 Background and Graphics

The entire client end has been designed to look pleasing to the eyes. We have used Bootstrap, a CSS library for this purpose.

- Javascript files placed in the folder named *assets* render the graphics of this website, viz., background transition and flashing.

- Images for background transition can be located in *assets/img/backgrounds*.

- Background image transition speed can be modified in the file *assets/js/scripts.js*.

8.2 Security

- The database is secured to prevent any SQL injections.

- Login and logout features are added to ensure that miscreant activity is reduced to a minimum.

- Pages of this website except for the home page and login page, cannot be accessed directly by typing url in the browser.

- Pop-up alert boxes are placed at appropriate levels so that the user or the admin modifies/deletes the records in full conscience.

- Input through forms is monitored so that categorically correct information is added to the records, viz., email and contact number validation.

- As of now, a logged-in user **can in principle modify the records of any user** as long as he knows the email-ID and department of that user.

9 Hosting the website on your computer

Kindly follow this procedure for hosting the website on your computer:

1. Make sure you switch on the LAMP/MAMP/WAMP server on your computer.

2. Log into your MYSQL Database.

3. Change the IP address in all these files to that of your computer's IP address: *pro1.0.php, pro1.php, pro2.1.php, pro2.php, pro3.1.php, pro3.php, pro4.1.php, pro4.php,pro5.php, pro6.php, pro8.0.php, pro8.1.5.php, pro8.1.php, pro8.5.php, pro8.php, pro9.0.php, pro9.1.php, pro9.php, pro10.0.5.php, pro10.0.php, pro10.1.5.php, pro10.1.php, pro10.php, prochange.php, prochange1.php, promod.php, promod1.php, signup1.php and signup2.php.*

4. Change the username and password of MYSQL Database in login.php and signup.php to that of your computer's MYSQL Database credentials .

5. Link the folder iitdhcd-new to your computer server's root directory.

6. Type in *your_IP_address/iitdhcd-new/pro0.php* in your browser to access the homepage of this website.

10   Project Resources

Please click here to find the source code of our project.

END OF DOCUMENT