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Automated alumni data tracking system

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Abstract---Automated alumni data tracking system is an internet-based application that can be accessed through the web. This project is built using the start wamp server and android studio. Automated alumni data tracking system is developed by using PHP as a frontend tool and MYSQL as a backend tool. An android application is developed to track all the alumni of the institution using web API. The location of alumni is tracked by GPS and the location will be plotted on google Map. Anyone can access automated alumni data tracking system to know about any alumni of that college but can't able to modify the data. The repository and search engine are internet-based applications that can be accessed throughout the database on the forum. The automated alumni data tracking system has two modules namely alumni and admin. According to the modules the student and administrator can manage and easily do their activities. Admin has full access to all the modules of this system and is responsible for the accounts of all students. Admin has the power to update, modify or delete event details. Alumni can update, modify or delete job fair details. Admin can also prepare and submit daily reports, user reports, event reports, etc. Alumni can create and login into the profile. When one alumnus updates their profile all the alumni and the admin will receive a notification about the changes. At present, if alumni work in a particular company and later relocate to another company, all the members in the database will be notified through the wamp server. Students can see all alumni information in the portal.

Alumni can be searched by some filter like First/last name, year, company, city of residence. They can also able to send messages to other alumni. Alumni can able view the information about campus interview details, events details, workshop details. This information helps the students to search the alumni very efficiently.

Keywords---start wamp server, PHP, MYSQL, alumni information management, android application.

Introduction

Nowadays, in academic environments, one of the major concerns of the teaching staff of undergraduate programs is analyzing how their students adapt to professional life after their graduation. This concern exists essentially, as a means to know if the curricular grating and the program syllabus of a given undergraduate program, passed onto its students, are managing to meet the needs of the current labor market. For this purpose, automated alumni data tracking system is used which can act as an interactive medium between the old student and the college, university, or institution. In current scenario, the database of Alumni is maintained by college which is static. So there is a need of an application which can keep track of all the alumni in real time. An android application is developed which will be useful to track all the alumni. Automated alumni data tracking system is a web-based application that helps institutions to track old students and to track them for future development. At the same time, it helps the alumni to communicate with the institution, college, or a university and with the old batch mates. Automated alumni data tracking system helps to track the college graduates. The project aims to improve the current tracking procedure of college graduates and provide alumni data to college faculties. It is meant for maintaining the information of the students who left the institution on completion of graduation. So, this web-based system helps them to be in contact with the institution and the others students. Alumni networks provide long-term value to an educational institution by giving alumni the chance to stay in contact and continue to learn from each other long after they have left the instution.

User define AIS as web-based services that allow individuals to

1. Construct a public or semi-public profile within a bounded system,
2. Articulate a list of other users with whom admin share a connection,
3. View and traverse alumni list of connections and those made by others within the system.

Alumni information provides batch & division wise community management system. AIS provides functionality for searching users, adding users, profile management & community management. This project may be a subpart of the campus management system, college web portal, or personalize CMS. A person should be able to

- a. Click on a button or link to be taken to the specific application.
 - b. The first page of the application should provide the user (student only) with the option of saving his/her details in the database and searching for alumni.
2. The page through which the student enters his/her details should allow saving of user details like name, year of passing, contact number, present address, permanent address, etc. This page will be having 2 buttons save and cancel.
 3. The save page should have proper validation before allowing the user to save user details into the database.
 4. The cancel button should take the user back to the home page (first page).
 5. The search page should allow search based on the name of the user or roll number.

Objective

- To build a web-based system that will be able to track alumni of a college or institutions
- To track and get a notification when the alumni relocated to another company
- To get a notification when alumni update their profile
- To search the place of the alumni using search engine
- To allow old and new students of a college to communicate with each other
- To allow admin to post and view job vacancy
- To allow alumni to search for job vacancies, friends, and to post job vacancy

Existing Method

The existing method is a manual one in which users are maintaining books to store information like colleges details, student details. It is very difficult to maintain historical data. The existing system is built with innumerable excel sheets that are created by each user. These sheets may be collated by an alumni organization and shared with all the alumni but this activity may not be frequent. E-Mail IDs may be freely shared and can lead to excessive spam mails. This apparent lack of privacy will force many alumni to avoid sharing their details with fellow alumni. The system is difficult to maintain regularly by a small group of students.

Proposed Method

In this proposed method best alumni web portal will facilitate an effective communication platform through online chatting, profile viewing, and personal messaging within three stakeholders of the institute via-College, College students, Alumni. Figure:3.3.1 presents the data flow diagram of the automated alumni data tracking system. This portal will be providing direct contact of the alumni with the students as well as the staff members. The desired query of the existing students will be answered faster. This keeps the students updated with the current updates and demands of the industrial market. The students neither posting nor chatting can also silently be updated with the ongoing in the college as well as the market. Figure: 3.3.2 presents the data flow diagram of the admin.

This portal highlights the feature of communication, which will enable the current students to interact with the alumni of the college for getting various updates on current industry trends, internship opportunities, sponsored projects, and various referral openings in the corporate world. Figure: 3.5.1 presents the data flow diagram of alumni. This portal will serve the cause of integrating all the stakeholders of the institute such as alumni, college students, and faculties to avail the guidance and knowledge sharing on various domains. In this project, the dynamic architectural design of the alumni portal was proposed, which enables two-way communication between all stakeholders. An android application is developed to track all the alumni of the institution using web API. The location of alumni is tracked by GPS and the location will be plotted on goggle Map.

Features

1. User can register to Alumni
2. Admin and alumni can log in to the web-based system
3. Alumni can update the profile
4. Students can see all alumni information in the portal
5. Alumni can see the details of the event
6. Alumni can send messages to their friends
7. Students also can see the campus interview details
8. Admin has full access to all the modules of this web-based system.
9. Admin is responsible for the accounts of all students.
10. Admin can update, modify or delete event details
11. Alumni can update, modify or delete campus interviews details
12. Admin prepares and submits also daily reports, user reports, event reports, etc.

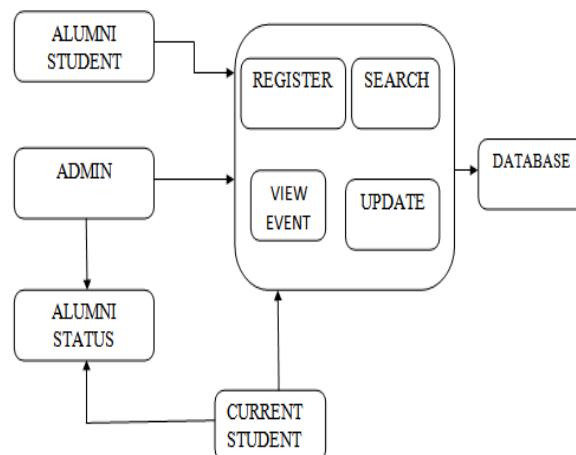


Figure 3.3.1 Data Flow Diagram of Automated Alumni Data Tracking System

The project contains two main modules:

1. Admin
2. Alumni

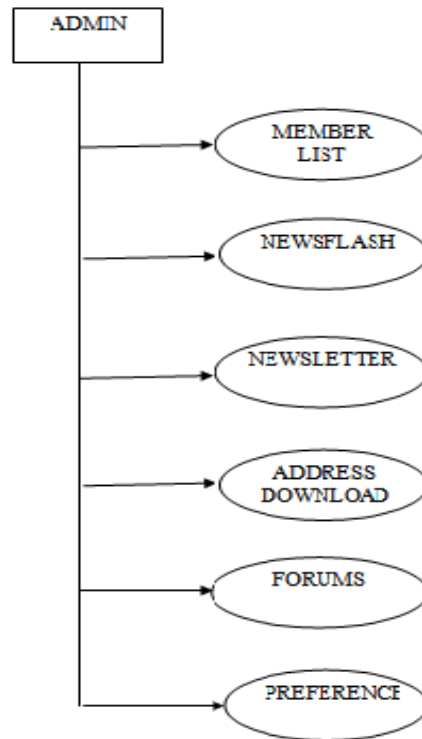


Figure 3.3.2 Data Flow Diagram of Admin

Admin

The college management officer is the administrator. He/she logs in to the application and enters the following details.

Admin login

Here the admin enters into his page and goes to the options provided. If the username and password are not in the database, then it is sure that the user is not created. So, a message is displayed to try again with another username and password.

Member list

Here all members of the network can be found in this list. Their profiles can be edited or admin can delete a member record.

Newsflash

Here a single item of important news broadcast separately. The events that are happened earlier are the greatest milestones of that college such as placing a greater number of students incorporated, a greater number of corporate companies are visit college, these are all posted by the admin on the page. The

event details such as placed student name with the placed company with the date along with the salary packages, the corporate company's lists which will visit the college for campus placement on which date along with their requirements. These details are to be viewed on this page by the student as well as the admin.

News letter

Here admin can write newsletters to all registered member's index. All newsletters are archived in the database.

Address download

Here admin can download a list of email addresses for use in external mail clients.

Forums

Here admin can add new forums or delete unwanted member messages.

Preferences

Subgroups are useful to organize members and control newsletter recipients. Here admin can add or delete new subgroups.

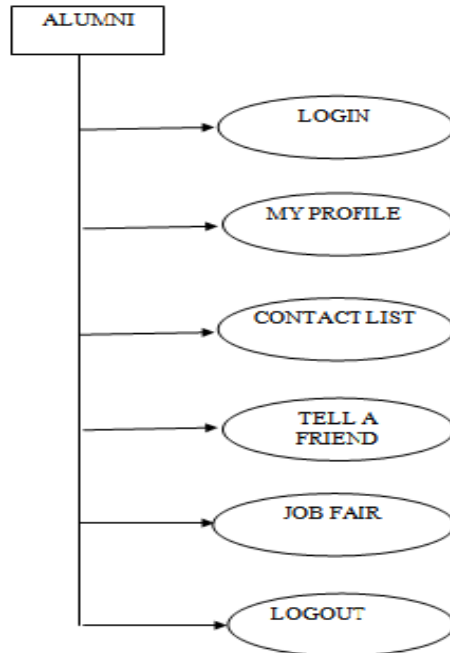


Figure 3.5.1 Data Flow Diagram of Alumni

Login

Here the graduate and student enter into his area and go to the options provided. If the username and password are not in the database, then it is sure that the user is not created. So, a message is displayed to try again with another username and password.

Forum

The message forum contains the category of company, job, and friends (student). The students can post questions, register, answer, post, and view articles.

Jobfair

All the jobs provided by the company and all the jobs at the selected location will be displayed. The job details are displayed in the chronological order of entry and can be edited. Through this section, the provider can view all the jobs they provided earlier. The job details include the job id, job date, job description, vacancies, last date for application, and location of the job.

Tell a friend

The network wants to reach out for all alumni. If someone who is not yet member of the network, alumni can invite the other alumni.

Contact list

Here this list shows all people on contact list. If anyone on this list changes her/his personal profile, admin and alumni will be informed. A contact request always works in both ways. Each member will be put on the other's contact list. Incoming contact requests shows the people requesting to be put on contact list. Outgoing contact requests shows all requests sent to other member's index.

Search friends

Friends can be searched by using the year of passing, first name, last name, and location.

Android application

An android application is developed to track all the alumni of the institution using web API. The location of alumni is tracked by GPS and the location will be plotted on Google Map.

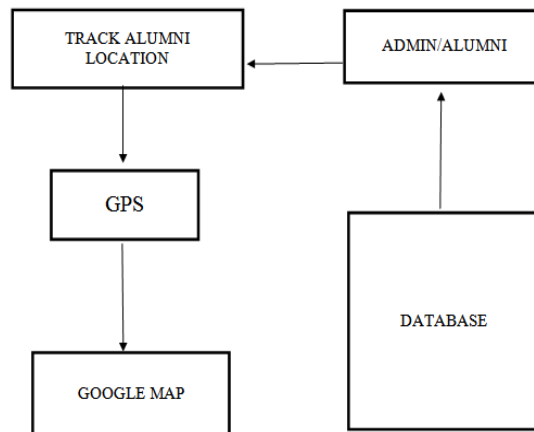


Figure 3.6.1 Dataflow Diagram of Automated Alumni Data Tracking System Using Android Application

Software Configuration

Operating system : windows
 Front end : PHP
 Back end : MY SQL
 Coding language : Java

Result and Conclusion

Alumni Portal for any college website is very important. It has been set up to increase interaction, knowledge sharing, and networking among the alumni students and also focuses on bringing together alumni students of college and the primary goal of this project is to track the alumni. After sufficient emails have been collected through the update form the authentication can be shifted to a more secure format like email-password pair and the system can be extended to be a hub for inter- alumni, alumni-student, and alumni-college communication e.g., a place to host job vacancies, a place to organize and be informed of college events. Figure:4.1.1 shows the home page of the start wamp server. Figure:4.1.2 presents the home page of the automatic alumni data tracking system. Figure:4.1.3 shows the login page of alumni. On this page, alumni can log in by using email and password. Figure: 4.1.4 shows the after login page of alumni. Figure: 4.1.5 shows the alumni profile page. On the profile page, alumni can able to update their profiles. Figure: 4.1.6 shows the become a member page in which alumni can able to create their profile. Figure:4.1.7 shows the add contact page. Here the list shows all people on the alumni contact list. If anyone on this list changes her/his profile the alumni will be informed. A contact request always works in both ways. Each member will be put on the other's contact list. Incoming contact request shows the people requesting to be put on your contact list. Outgoing contact request shows all requests you sent to others members' indexes. Figure: 4.1.8 shows add new jobs page in which alumni can post about the job vacancy. Figure: 4.1.9 shows the tell a friend page. The network wants to reach out to all alumni if any alumni know someone who is not yet a member of

the network, they can invite the persons. Figure: 4.1.10 shows the change password page here the alumni can able to set a new password for their profile. Figure: 4.1.11 shows the admin login page. Figure: 4.1.12 shows the admin home page. Figure: 4.1.13 shows the member list. Figure: 4.1.14 shows the newsflash on the home page. Figure: 4.1.15 shows email newsletters. Figure: 4.1.16 shows the address download by admin. Figure: 4.1.17 shows the database admin. Figure: 4.1.18 shows the preference page. The package was designed in such a way that future modifications can be done easily. Figure: 4.1.19 The location of alumni is tracked by GPS and the location will be plotted on google Map.



Figure 4.1.1 Start Wamp Server

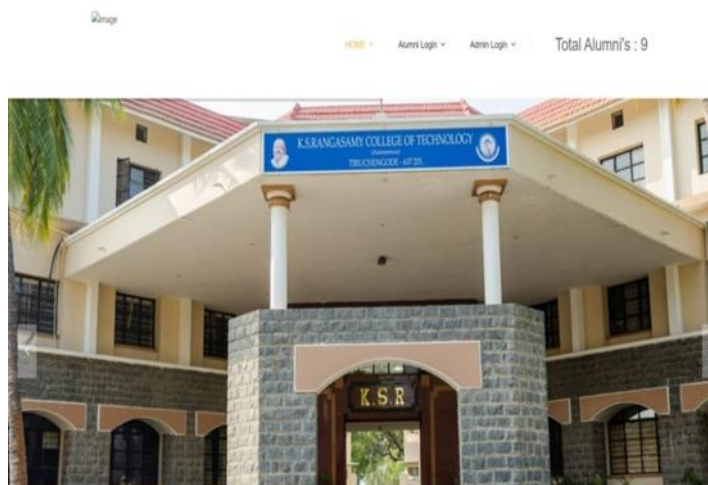


Figure 4.1.2 Home page

phpAlumni - Alumni Portal System

You are not logged in!

[Login](#)
[Become a Member!](#)
[Lost your Password?](#)
[Terms of Service](#)
[Imprint](#)

Login

Use your email address and your password to log in. Have Fun!

Email:

Password:

Figure 4.1.3 Login Page

phpAlumni - Alumni Portal System

Logged in: janani anbu [Log Out](#)

[Home](#)
[My Profile](#)
[Member List](#)
[Contact List](#)
[Forum](#)
[Jobfair](#)
[Tell a Friend!](#)
[Search](#)
[Change Password](#)
[Terms of Service](#)
[Imprint](#)

Hello janani!

Welcome to the alumni network! Feel free to browse through the offerings on this platform and participate as much as possible. This will bring life to this community.

Have Fun!

Birthdays in the next 30 days:

Newsflash!

KSR ALUMNI MEET DEC 2021 on -1/0-2021
 WE WELCOME KSRCT ECE ALUMNI MEET 2021

new alumni meet 2018 on -1/0-2018
 welcome all for new alumni meet

Figure 4.1.4 After Login Page

localhost / localhost | phpMySql | phpAlumni - Alumni Portal System | functions.inc.php

Add new Job!

Complete the fields below to add a new job to the jobfair_index:

Company:
 Industry:
 Title:
 Salary:
 City:
 Country:
 Description:
 Prerequisites:
 Benefits:
 Experience needed: Years
 Start:

[My Profile](#)
[Member List](#)
[Contact List](#)
[Forum](#)
[Jobfair](#)
[Tell a Friend!](#)
[Search](#)
[Change Password](#)
[Terms of Service](#)
[Imprint](#)

Figure 4.1.5 My Profile Page

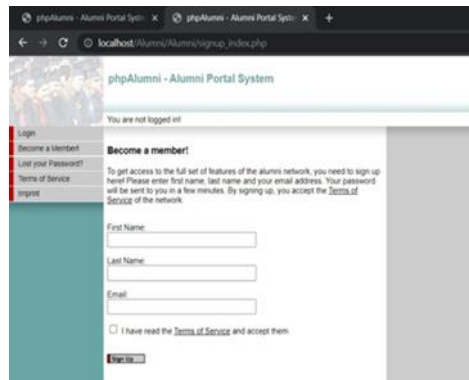


Figure 4.1.6 Become a Member

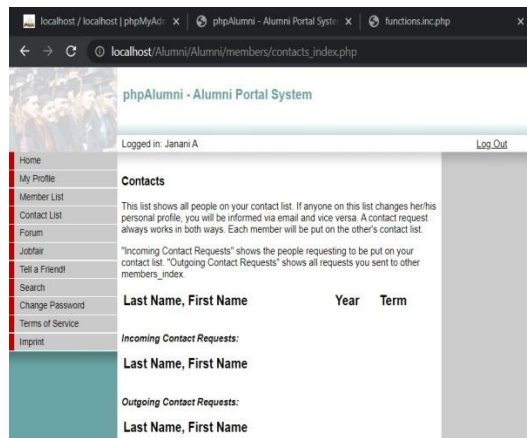


Figure 4.1.7 Add Contacts

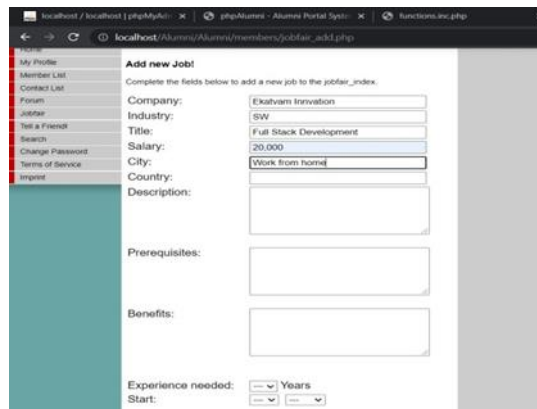


Figure 4.1.8 Add NewJobs

localhost / localhost | phpMyAdmin | phpAlumni - Alumni Portal System | functions.inc.php

localhost/Alumni/Alumni/members/tell_a_friend_index.php

phpAlumni - Alumni Portal System

Logged in: Janani A Log Out

- Home
- My Profile
- Member List
- Contact List
- Forum
- Jobbar
- Tell a Friend
- Search
- Change Password
- Terms of Service
- Imprint

Tell a Friend!

The network wants to reach out for all alumni! If you know someone who is not yet member of the network, feel free to invite the person. Please remember that only persons with a serious interest in the network will help promoting it.

Please enter first name, last name and the email address of the prospective member. A mail with a password and further information will be sent out in a few minutes.

First Name:

Last Name:

Email:

Figure 4.1.9 Tell a Friend

localhost / localhost | phpMyAdmin | phpAlumni - Alumni Portal System | functions.inc.php

localhost/Alumni/Alumni/members/password_index.php

phpAlumni - Alumni Portal System

Logged in: Janani A Log Out

- Home
- My Profile
- Member List
- Contact List
- Forum
- Jobbar
- Tell a Friend
- Search
- Change Password
- Terms of Service
- Imprint

Change Password

Please enter your new password in both fields and press OK.

Your new password has to have **at least 8 characters!**

Old Password:

New Password:

Confirm New Password:

Figure 4.1.10 Change Password

localhost / localhost / mysql | phpAlumni - Alumni Portal System

localhost/Alumni/Alumni/index_admin.php

phpAlumni - Alumni Portal System

You are not logged in!

- Home
- My Profile
- Member List
- Contact List
- Forum
- Jobbar
- Tell a Friend
- Search
- Change Password
- Terms of Service
- Imprint

Admin Login

Came here by accident? Please [click here](#) to log in and access all features!

Login:

Password:

Figure 4.1.11 Admin Login Page

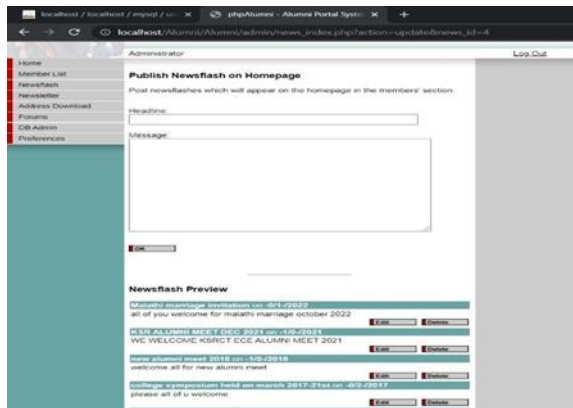


Figure 4.1.12 Admin Home Page

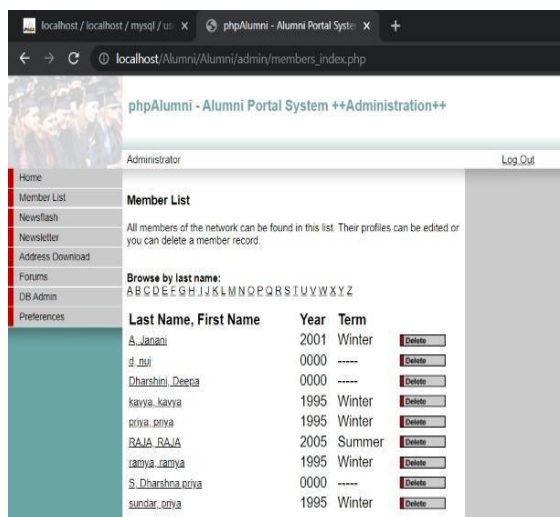


Figure 4.1.13 Member List

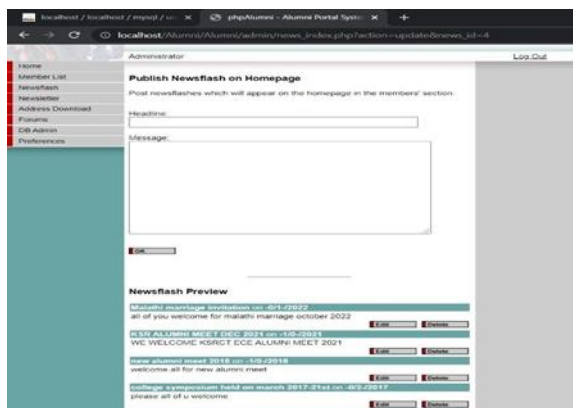


Figure 4.1.14 New Flash on the Home Page

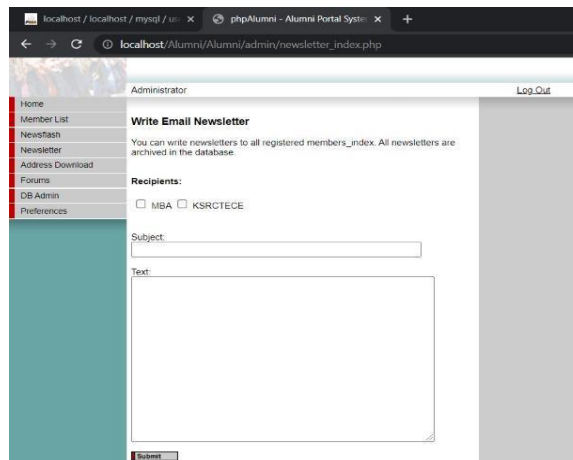


Figure 4.1.15 Email Newsletter

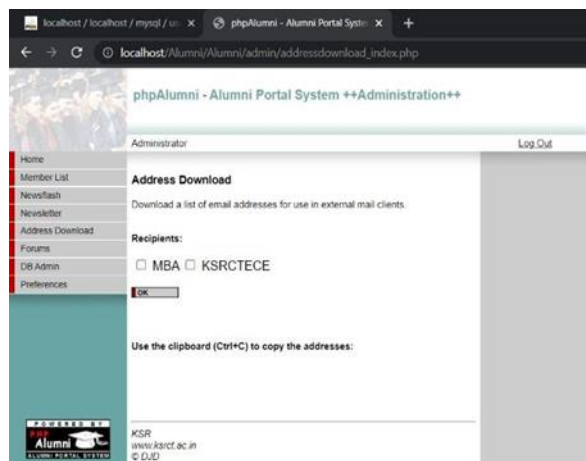


Figure 4.1.16 Address Download by Admin

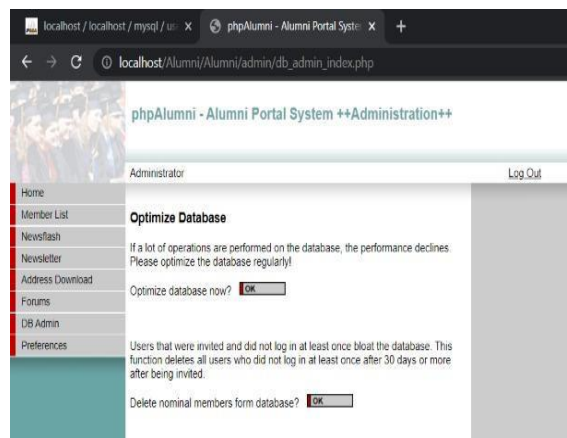


Figure 4.1.17 Database Admin

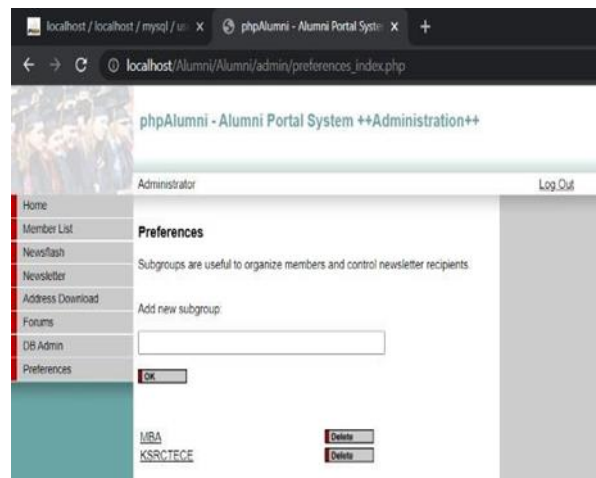


Figure 4.1.18 Preference

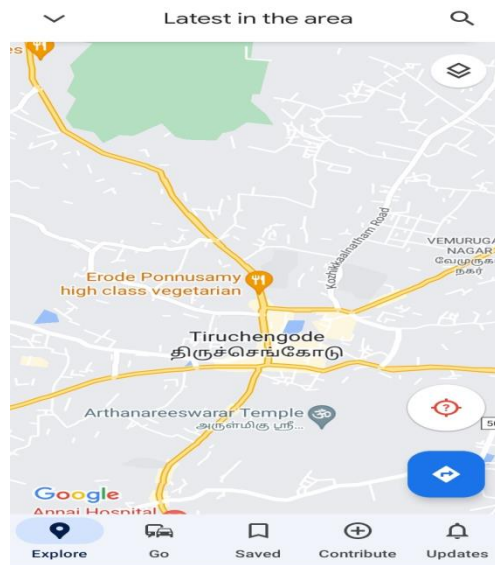


Figure 4.1.19 Google Map

Conclusion

The following conclusions can be deduced from the development of the project. A web-based system is presented for the collection and visualization of information of alumni. Automation of the entire web-based system improves efficiency. It provides a friendly graphical user interface which proves to be better when compared to the existing method. It gives appropriate access to the authorized users depending on their permissions. It effectively overcomes the delay in communications. Updating information becomes so easier. System security, data security, and reliability are the striking features. The System has adequate scope for modification in the future if it is necessary. Students with the college and existing college students with the help of alumni web portal where they can have communication with existing students and college. The key features of the project

are student registration is simple, maintaining the details of the students, select the students based on the given data. Automated alumni data tracking system intends user-friendly operation.

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