

Telephone Directory IIT Kanpur

CS 315 : Database Systems

Technical Report

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1 Introduction

We are implementing Telephone directory of IIT Kanpur community. It has a web-based interface with many enhanced features with which the users can access to various details of members of IIT community , along with being able to update their information in the database.

2 Motivation

The main motivation behind our project is that currently the telephone directory of IIT Kanpur has very limited features for example currently it supports telephone database only of institute staff and the search can only be done by name and phone number . So we wanted to extend this database to support information about students also along with a wide range of features including search with different fields. The additional purpose that our application does is that it also serves as Office Automation .

3 Result

The details of the features that we have implemented are as follows:

On the main page there are 5 links , namely

1. Administration Login
2. Student Search
3. Faculty Search
4. Student Update
5. Faculty Update

3.1 Administration Login Page:

This area of the application is accessible only to administrator . The administrator can use this page to add details of a new student and new faculty along with assigning passwords to various users . The details for a student include Roll number , Email-ID , Name , mobile-number , batch , department , password , while those for a new faculty are Email-ID, Name , Department , Office phone number , House phone number , Office Address ,password .

3.1.1 Adding a student :

Following fields have to be inserted compulsorily : Email , password , Name , Roll number , Department , batch , The optional field is students mobile no

3.1.2 Adding a Faculty :

Following fields have to be inserted compulsorily : Email , password , Name , Department . The optional fields are officephone number , House phone number , Office Address .

3.2 Student Search:

The details of students can be searched by entering search keys in the following fields : Name , roll no , email id , phone no.

3.3 Faculty Search:

The details of students can be searched by following fields : Name , email id , phone no.

3.4 Student Update

A student can update(insert or delete) his phone no details after logging in with his email-id as his username and his password .

In case he does not know or has forgotten his password then he can fill in his email-id and then his corresponding password would be mailed to him.

3.5 Faculty Update

A Faculty can update(insert or delete) his office phone no , house phone no , and office address details after logging in with his email-id as his username and his password .

In case he does not know or has forgotten his password then he can fill in his email-id and then his corresponding password would be mailed to him.

4 The structure of the Database

The details of the attributes of various tables used in the database are as follows :

4.1 Student

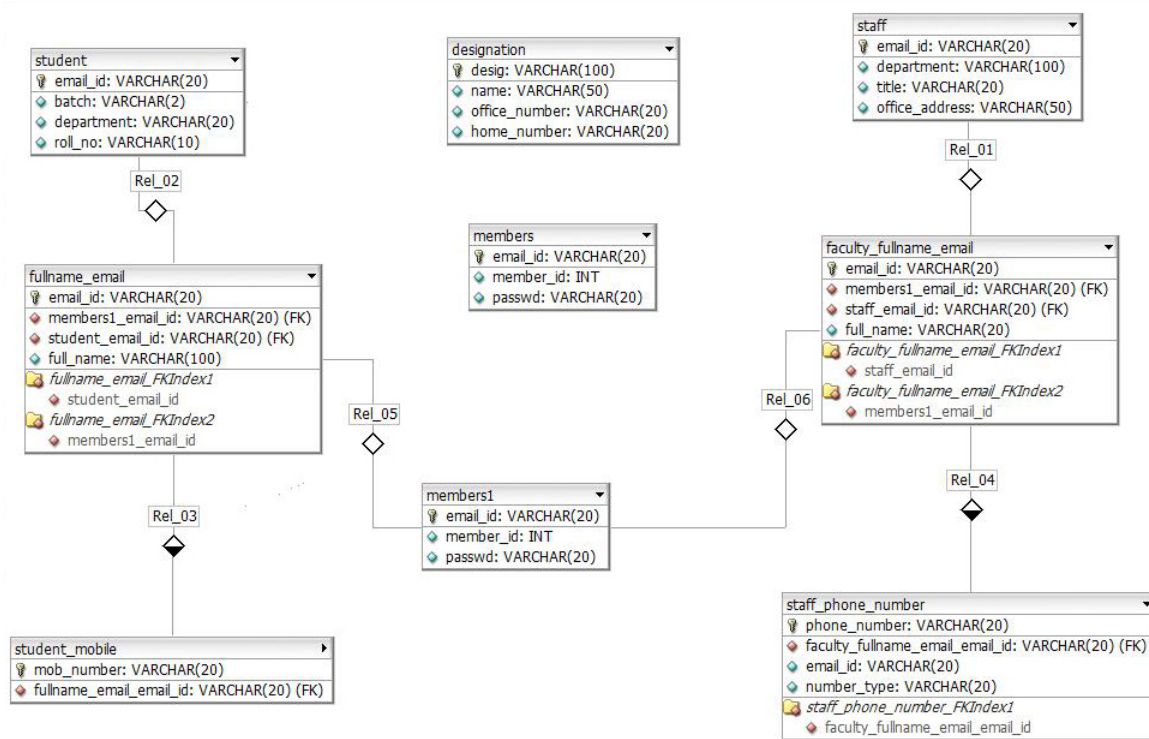
- email_id : This attribute stores the email address of the student.
- batch: This attribute stores the batch of students to which he belongs for eg. Y6
- department : This attribute stores the department of the student .
- roll_no : This attribute stores the student's roll number

4.2 fullname_email

- email_id : This attribute stores the email address of the student.
- full_name : This attribute stores the student's name in full .

4.3 Student_mobile

- mobile_number : This attribute stores the students contact numbers which have been assumed to be mobile numbers . A student can have more than one mobile numbers
- email_id: This attribute stores the email address of the student



4.4 staff

- email_id : This attribute stores the email address of the faculty
- title: This attribute stores the title of the particular faculty for eg . Prof , Asst Prof , visiting etc
- department : This attribute stores the department of the faculty.
- office_address : This attribute stores the faculty's office Address.

4.5 faculty_fullname_email

- email_id :This attribute stores the email address of the faculty
- fullname: This attribute stores the faculty's name in full.

4.6 Staff_phone_number

- email_id :This attribute stores the email address of the faculty
- phone.number: This attribute stores the faculty's contact numbers.
- number.type : This attribute stores the type of the corresponding contact number in the table . This can be office or house

4.7 designation

- desig : This attribute stores any of the special post the faculty may be on.
- name: This attribute stores the name of the faculty.

- office_number : This attribute stores the office number of the faculty on that post.
- home_number : This attribute stores the home number of the faculty .

4.8 members

- email_id : This attribute stores the username of the administrator(s)
- member_id: This attribute is used to maintain the session id of the administrator.
- passwd : This attribute stores the password of the corresponding administrator.

4.9 members1

- email_id : This attribute stores the username of students and faculty which is same as his email-id.
- members_id: This attribute is used to maintain the session id of the student or faculty.
- passwd : This attribute stores the password of the corresponding user may it be student or a faculty member.

5 Acknowledgements

We would like to thank Dr. Arnab Bhattacharya, for his guiding us throughout the project.

We are grateful to Telephone Department IIT Kanpur and Computer Center IIT Kanpur for providing us with all the data that we have used for our database.

6 References

1. IITK telephone department website : <http://www.iitk.ac.in/tel/mainpage/>
2. <http://www.phpeasystep.com/phptu/23.html>
3. <http://www.w3schools.com/PHP/>
4. <http://www.blog.highb.com/php/php-solutions/php-mail-localhost/>