NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

PRESENTED TO THE STARTUP INCUBATOR COMMITTEE

Project report

Mangalore Diaries

Formerly: *e-Yellow Pages*

Date: November 14, 2012

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ABSTRACT

INTRODUCTION

The project is based on developing websites for yellow pages for Mangalore city.
Mangalore Diaries is basically a web based search engine/ place finder containing a list of places, industries, shops, malls, cinemas etc. based on location, categories or just alphabetically. A user after coming on to the website can search our database for the various places in this city

HOME PAGE

Sign up- login or signup by entering name, organization, location etc. Search your city based on drop down menu/list based queries.

QUERIES BASED ON

Category wise- priority or most popular
Location wise- various places in a certain locality
Alphabetical- names of places in alphabetical order is displayed in the list.
Once selected the details of particular place will be displayed.

SPECIAL PRIVILIGES AFTER LOGIN

After the user logins onto the web-site using username and password, we have certain privileged information such as reviews, advertisements and register your own company. A registered user can write review for a particular company, can see the reviews or 'like' that item. A registered user can register his company with us to be displayed in the list for others to view. Also, a registered company can request for an advertisement with us.

DATABASE REQUIRED

Various databases will be required pertaining to city places information, hits, contacts etc. Special databases for advertisements, users with passwords have been maintained to personalised data, like who registered a particular company and which company gave a particular advertisement.

TOPICS COVERAGE

The project will cover the following topics: Front end designing using HTML, CSS, and JavaScript. The back end will be taken care of by PHP and database queries will be made through the Structured Query Language written for MySQL server. Normalization and Functional dependencies; select, insert, update, joins in SQL queries etc.

REQUIREMENTS

The requirements for building up the application are as follows:

1. WAMP Server- Windows Apache MySQL PHP server
2. Front End: HTML, CSS, JAVASCRIPT.
3. Back End: PHP and MySQL.
4. Supplementary S/w: Adobe Dreamweaver, Adobe Flash.

IMPLEMENTATION AND NORMALIZATION

Three levels of implementation was done in our project

- Front –End
- Back-End
- Front-End to Back-End connectivity

FRONT END

- Front end was coded in **PHP** and formatting and styling was done using **CSS and HTML.**
- **Index1.php** (front page of our site) consists of following functionalities.

Search-by categories (drop-down)

It helps us in taking option value from user using html forms and match them with company tables attribute category in database using post method to connect with database using php.

Search-by location (drop-down)

Through this we can retrieve values from our company table in database based on location attribute.

Search alphabetically (drop-down)

It shows all entities in our database company alphabetically and we can choose from the list.

Search (text box)

In this we can search our database as per any of the attribute as per our choice.

Most popular hits

It is implemented using JavaScript code .we retrieve the lyke attribute value from our company table and display the one with the highest value of lyke attribute.

Advertisements

It is used to advertise companies registered with us .here companies can post their advertisements as well as offers and it will be displayed periodically.

Register with us

It is included in the footer of every page.it is a form through which any one can register their company with us by filling the form and then we check the authenticity of their data through checkregister.php page after which values are added into our company table.

Advertise with us

It is a html form in which you provide us with your user-id, password and ad or poster you want us to display which we verify with data in our user table of our database and add your poster to our poster folder if you are a valid user.

Feedback

It is an option we have included in our footer through which you can send us your feedback or complaint message. On the top-right corner of our site there are options for login and signup

Sign-up

Using sign-up utility you can become a member of our site and avail additional benefits of adding your company, advertising with us, adding reviews about different companies, reading reviews of other users and liking a company .if your signup details are valid according to checksignup.php page then you will be added to our user table.

Login

After you have signed up for the first time after that you can always login using login utility by providing your login-id and password.

After login you can also add reviews for different entities of company table and also view reviews by other users and there is also a lyke button type which would increment the value of lyke attribute for that company and would influence most popular hits.

BACK-END

- Our database is **database.sql** and is modeled on **relational database modeling scheme** in which entire data is in form of table having real world objects in form of entities and their characteristics stored in form of attributes.
- We have **used 5 table in our database.sql file** namely

- **Company**

cid	**Name**	**Category**	**location**	**phone**
Email	**Description**	**Image**	**Uid**	**lyk**

Primary key- cid
Foreign key- uid

- **User**

uid	**password**	**uname**

Primary key – uid

- **Reviews**

uid	**cid**	**description**

Primary key – (uid, cid)
Foreign key- cid

- **Advertisement**

cid	**poster**

Primary-key –cid

- **Feedback**

name	**email**	**subject**	**category**	**message**

Primary key– (name, email)

From the above tables we can clearly see that our tables are **in Boyce Codd Normal Form (BCNF)** level of normalization.

BACK-END TO FRONT END CONNECTIVITY

Our front-end as we have stated mainly consists of php, JavaScript, html and css. We used the **POST method** used to take inputs from forms and then by specifying the action as category.php we used the retrieved value to send to database for matching with back-end by developing a connection through my_sql_connect () function as such:

```
$con = mysql_connect("localhost","root","") or die("UNABLE TO CONNECT");

mysql_select_db("database",$con);

$name=mysql_real_escape_string($_POST['categories']);
$name="'".$name."'";
$query="select * from company where category = $name";

$result = mysql_query($query,$con);
while($row=mysql_fetch_array($result)){}
```

- First we develop a connection with server which in this case is local host.
- Then we send the value of $con and name of database to be connected to the function mysql_select_db().
- Then we use the post variable to access value fetched from front-end into our sql query and send the query to the connected database and then fetch data rows using while loop.

SCREEN SHOTS

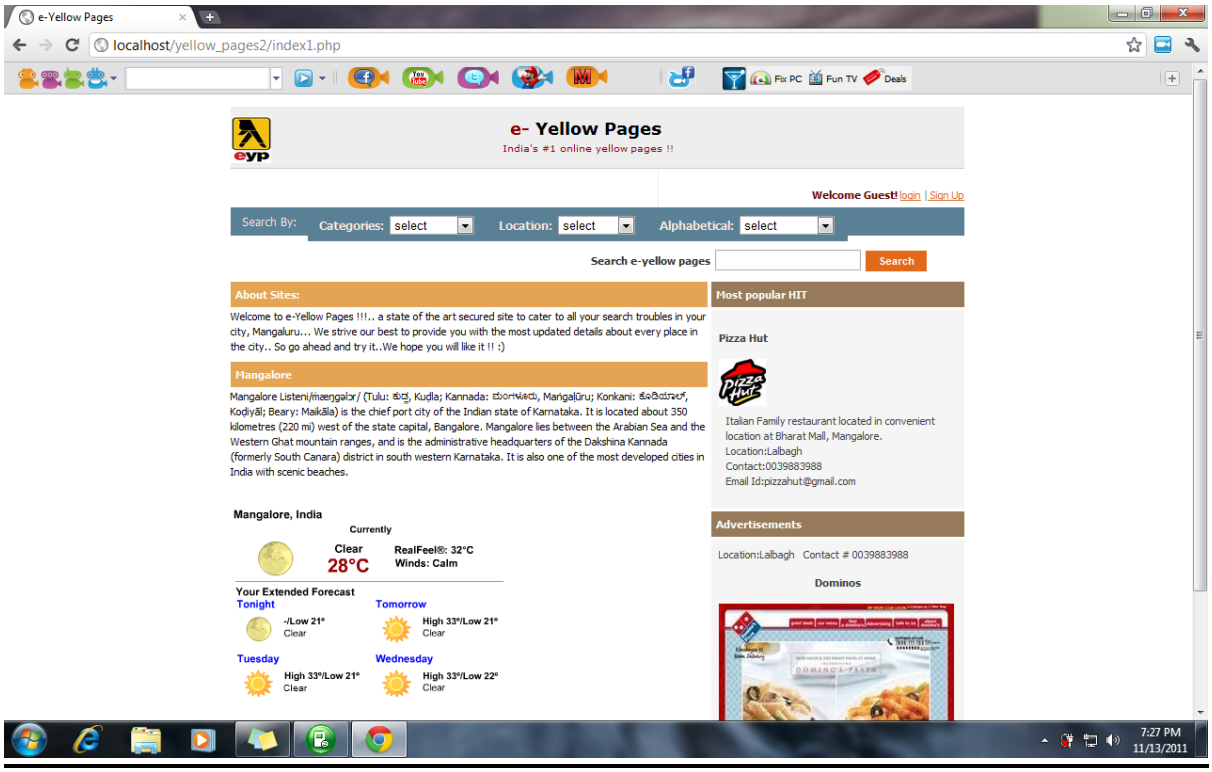
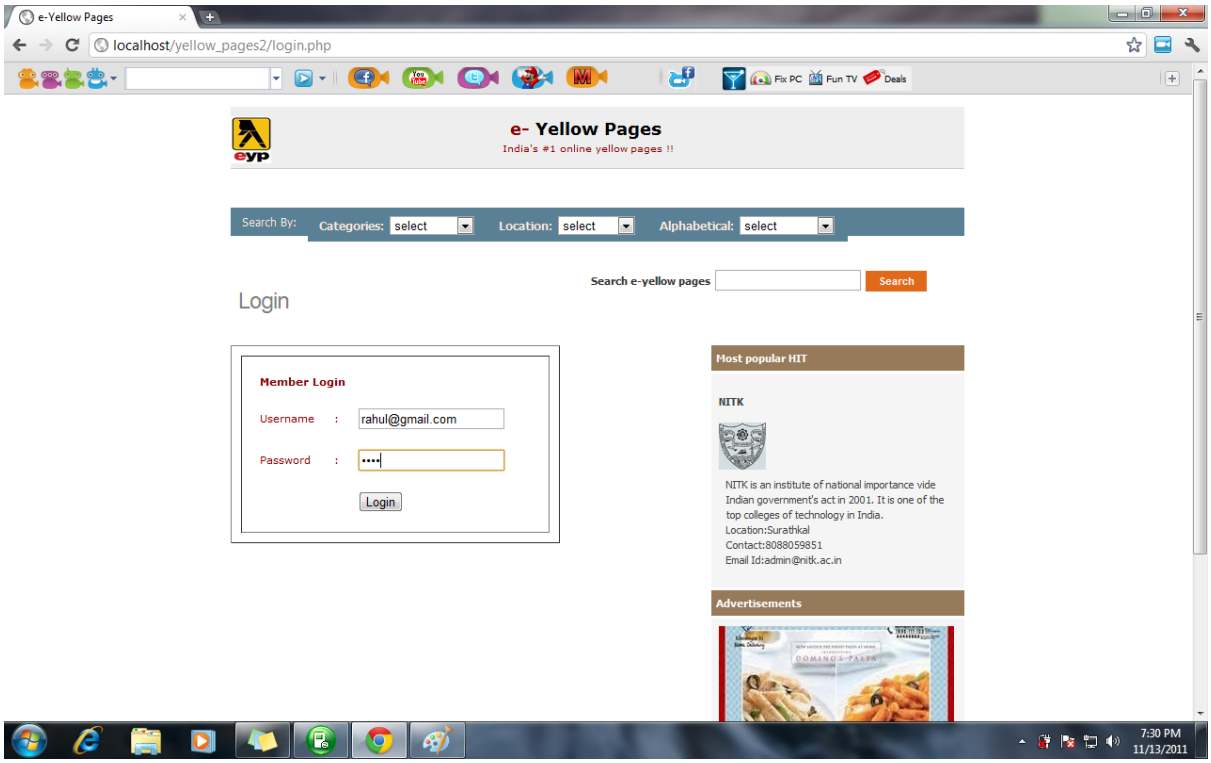


Fig 1 (up): Home page of the website

Fig 2 (side): Login page



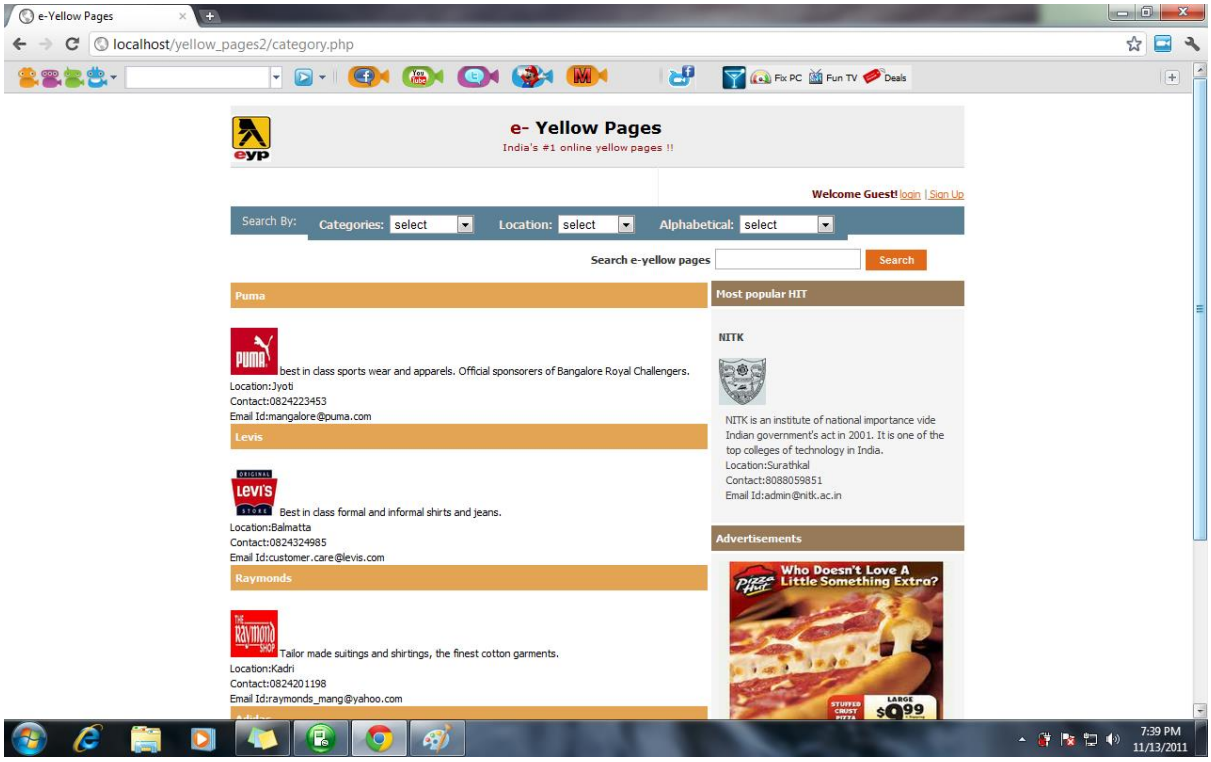
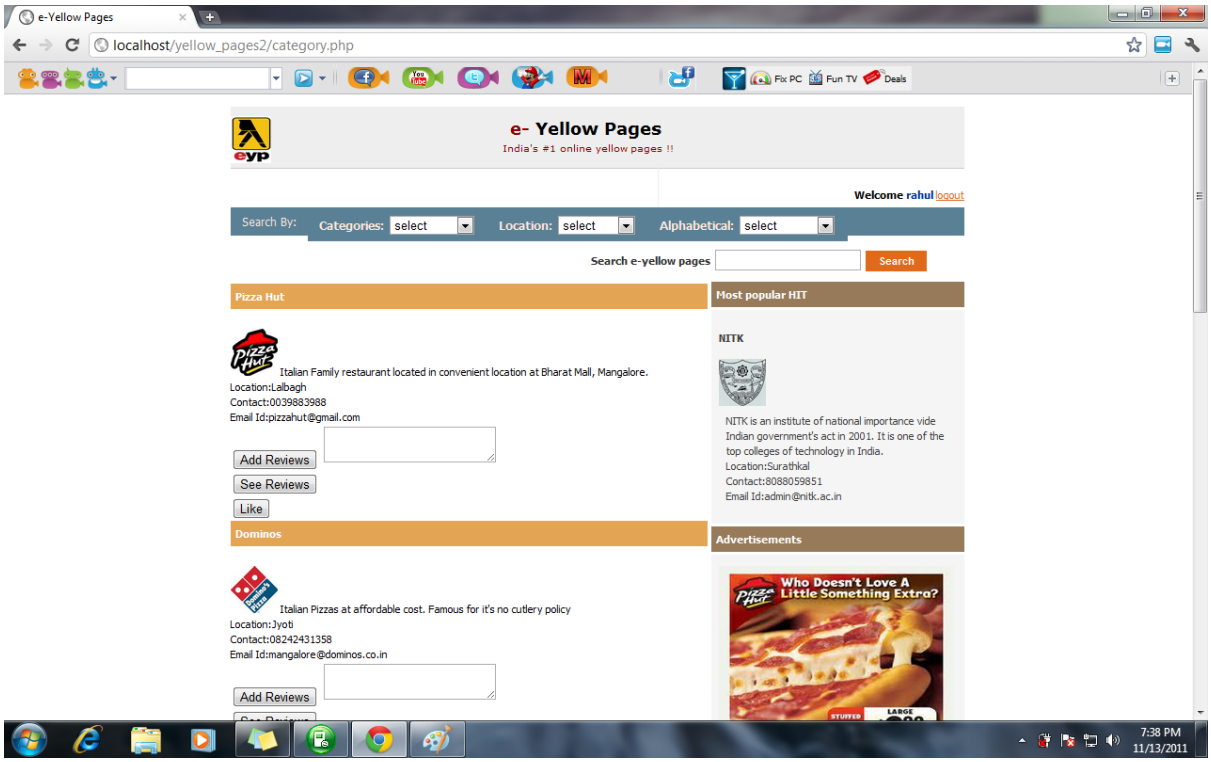


Fig 3: Dynamic page that appears on selection of a category (before login)

Fig 4: Dynamic page that appears on selection of a category (after login)



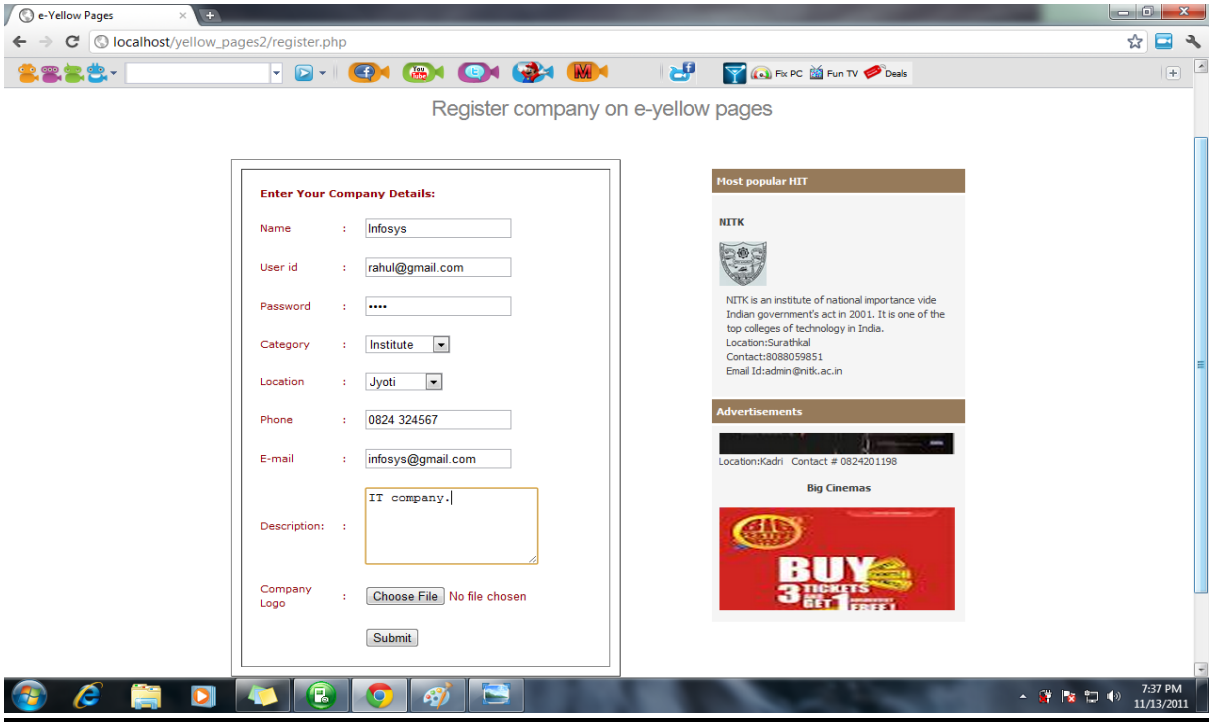


Fig 5: Form based input page to register a company on the website

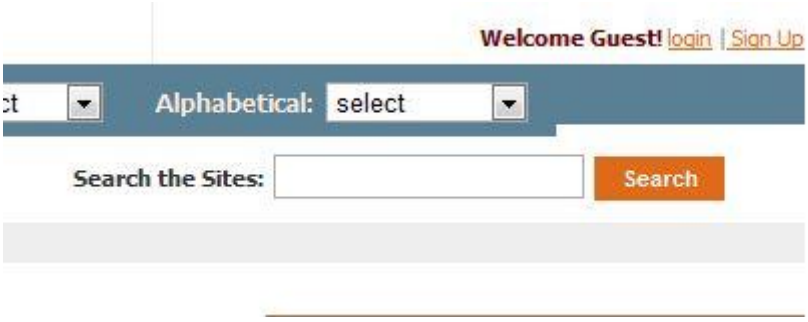


Fig 5: Website's search panel; can search based on name, location and category

Fig 5: A snapshot from 'php my admin' page describing the tables used in project

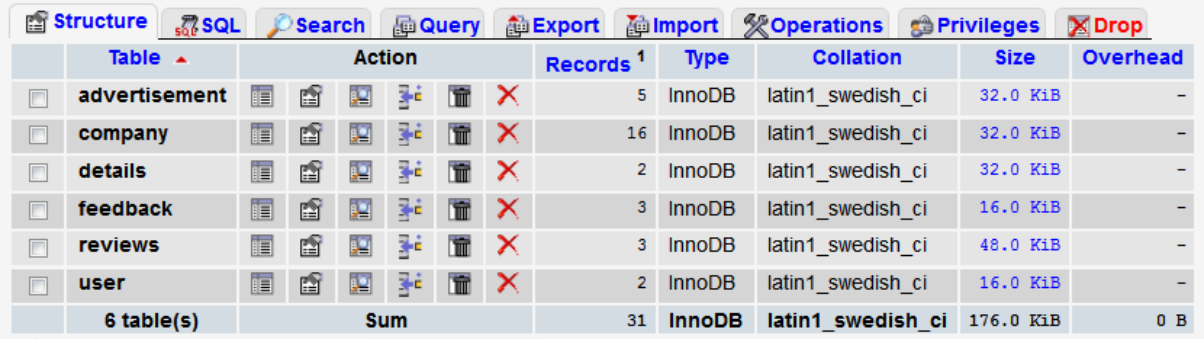


	Table	Action	Records [1]	Type	Collation	Size	Overhead
☐	advertisement		5	InnoDB	latin1_swedish_ci	32.0 KiB	-
☐	company		16	InnoDB	latin1_swedish_ci	32.0 KiB	-
☐	details		2	InnoDB	latin1_swedish_ci	32.0 KiB	-
☐	feedback		3	InnoDB	latin1_swedish_ci	16.0 KiB	-
☐	reviews		3	InnoDB	latin1_swedish_ci	48.0 KiB	-
☐	user		2	InnoDB	latin1_swedish_ci	16.0 KiB	-
	6 table(s)	Sum	31	InnoDB	latin1_swedish_ci	176.0 KiB	0 B

Sample SQL Queries

1. Query to check whether the user id and password match the current session user id and password:
   SELECT uname FROM user WHERE (uid = '". mysql_real_escape_string ($_SESSION ['username']));

2. Query to select company id from company table if user id and password are known:
   SELECT cid from user natural join company where uid='$username' and password= '$password';

3. Query to insert new record in advertisement table:
   INSERT INTO advertisement (cid, poster) VALUES ('$cid', '$poster');

4. Query to insert new record in feedback table:
   INSERT INTO feedback (name, email, subject, category, message) VALUES ('$username', '$email', '$subject', '$category', '$message');

5. Query to match user id and password against stored data in database and then allow login:
   *SELECT * FROM user WHERE (uid = '". mysql_real_escape_string ($_POST ['username']). "') and (password = '".mysql_real_escape_string ($_POST ['password']). "')*

6. Query to select reviews for a particular company (uses sub-query):
   *SELECT * from reviews where cid = (select cid from company where name='$name');*

7. Query to increment 'likes' by one count when user clicks button:
   UPDATE company SET lyk = '$num' WHERE cid = '$cid';

8. Query to insert a new user in database:
   INSERT INTO user (uid, password, uname) VALUES ('$username', '$password', '$uname');

9. Query to obtain the most popular company:
   *SELECT * from company order by lyk desc limit 1;*

10. Query to select all the company with advertisements:
    *SELECT * from company natural join advertisement;*

11. Query to search records based on name, location or category:
    *SELECT * from company where name = $name or location=$name or category=$name;*

CONCLUSION AND FUTURE SCOPE

We hereby conclude the project Mangalore Diaries v-2.0, with added features for logged in users like review viewing and editing, liking etc. Adding new companies in the database and creating your own advertisement posters etc.

This project has given us a lot of understanding about usage of databases in web application development and it's other advantages over file based systems including reduction of redundancy and hierarchical storage of data.

It has not only improved our programming and logic skills but also tested our algorithm designing and implementation.

We sincerely hope that you like our application/ website

The future scope of this application is bright, depending how marketing and publicity is done. It can be actually implemented in real world for a city (such as Mangalore) and expanded for multiple cities.

Furthermore addition of shopping portals can make the website more interesting and more fun to browse. Interactive front end graphics can be added with usage of visual basic, .NET and other tools.

There is a huge scope of this website as an application for mobile phones, similar portable device markets.