Enterprise Chat System

DEVELOPER DOCUMENT

Version: 1.0

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Invictus

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1.Preface:

The product enterprise chat system is developed for the safe and secure communication between the users. The document describes about the source code organisation,AP1s,database table format, data format when communicating with the system,

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-initial release

The remainder of the document is organized as follows. In Section 2, Glossary and Abbreviations of terms used in the document is provided. Section 3, deals with introduction of the document. sections 4,describes the software description of the product.Section5, deals with the system architecture section 6 deals with the structure of the database. In Section 7 , deals with extension the product.

2.GLOSSARY AND ABBREVIATIONS:

- **PHP**: Hypertext Preprocessor
  PHP is open source general-purpose scripting language and an interpreter used for web development and which can be embedded into HTML.
- **SQL:** Structured Query Language
  A **SQL** is used for inserting and selecting information from a database.
- **REST**: Representational State Transfer
  REST is an architectural style and is an approach to communicate development of Web services. Web services using REST architecture are called RESTful APIs.
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- **HTML5:** Hyper Text Markup Language, version-5
  It is standard markup language used to create web pages. HTML 5 is used for presenting WWW, Web Wide Web. Additional features and style can be added using CSS and JavaScript along with HTML.
- **GUI**: Graphical User Interface
  GUI allows the user to interact with graphical icons and visual indicators with electronic devices.
- **AJAX**: Asynchronous JavaScript and XML
  AJAX is the method of data exchange with a server and updating a part of web page, without reloading the entire page. It can transmit and receive information in a various format - JSON, XML, HTML, and even text files.

3. INTRODUCTION:

This document gives brief overview about the technical aspects of the product. This document also serves the assistance for developers for adding new functionalities.

4.SOFTWARE DESCRIPTION OF THE PRODUCT:

The backend of the product is totally written in PHP script. The front end of the product is written in HTML and PHP which interacts with the database and shows the various contents like chat box, contact book, status of the users on web based GUI. Ajax is used in the backend module of the product for dynamically updating the contents of the database tables.

5 SYSTEM ARCHITECTURE:

5.1 PROGRAMMING LANGUAGES USED:

- Html
- PHP
- Java Script
- MySql
- Ajax
- Jquery
- MySQL Database

5.ORGANISATION OF SOURCE CODE

Front end:

1.index.php

2.signuppage.php

3.adminpg.php

4.afterlogin.php

5. image files(blue.png,orange.png,purple.jpg,green.png)

6. deleteaccount.php

7. getautocomplete.php

8.idle.php

9.index1.php

10. mysqlimage.php

11.style.css

12.style1.css

13. style2.css

14. style3.css

15. style4.css

Database:

1.get.php

2.verifyadmin.php

3.verifylogin.php

4.configure.php

5.connect.php

Backend:

1.nik

1.1.box.php

1.2.index.php

1.3.chat.wav

1.4 idle.php

1.5 get.php

1.6 magic.css

1.broadcastmail.php

2.chatdetails.php

3.individualstats.php

4.integratestats.php

5.chathistory.php

6.adminaflg.php

7.userstatistics.php

8. dbase1.php

9. dbase2.php

10. dbase3.php

11.f.php

12.newadmin.php

13.record.php

14.recordstatistics.php

3. library files:

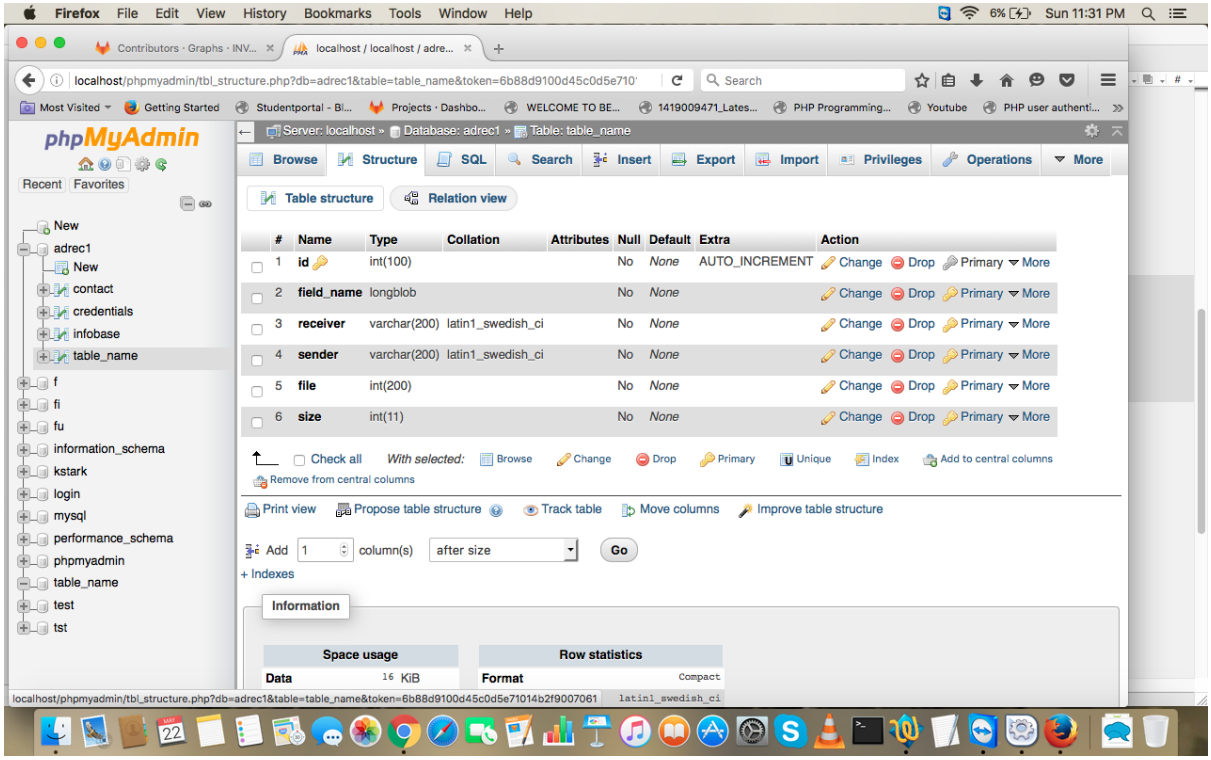
3.1 jquery.js

3.2 jquery-1.12.3.js

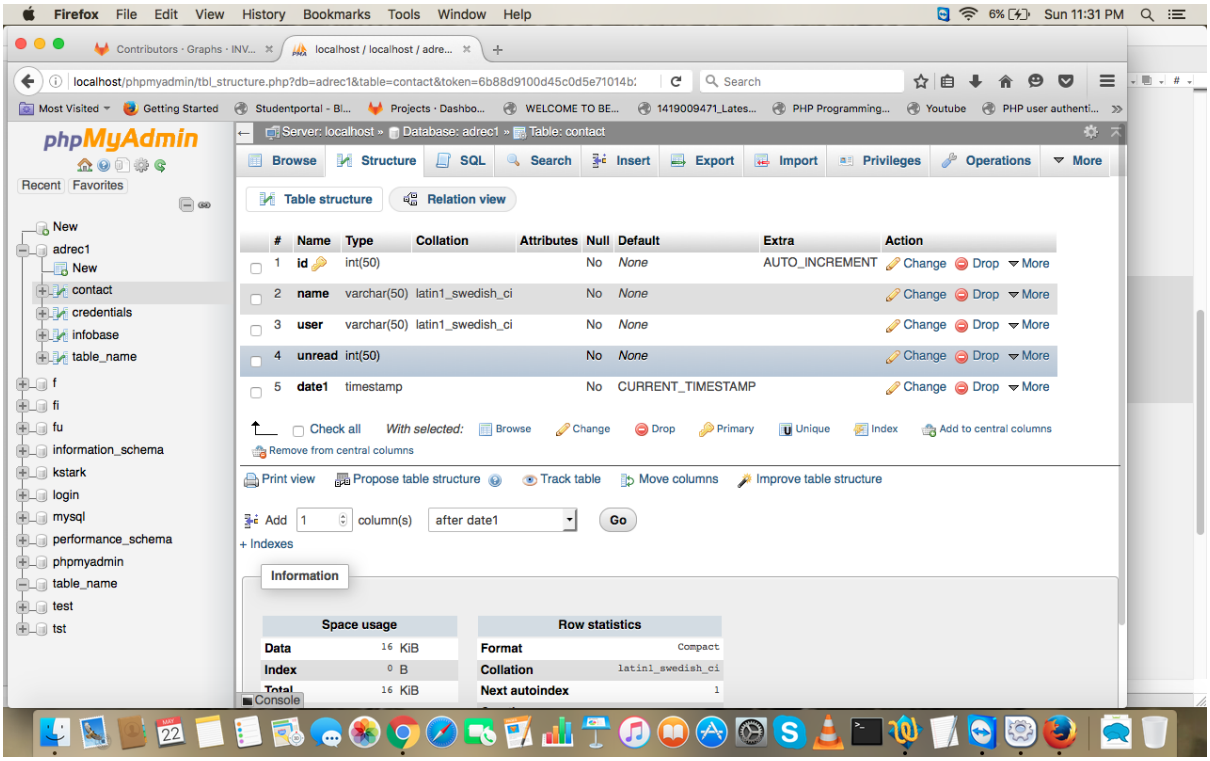
6.STRUCTURE OF THE DATABASE

The product uses single database with its name as adrec1 consists of three tables namely:

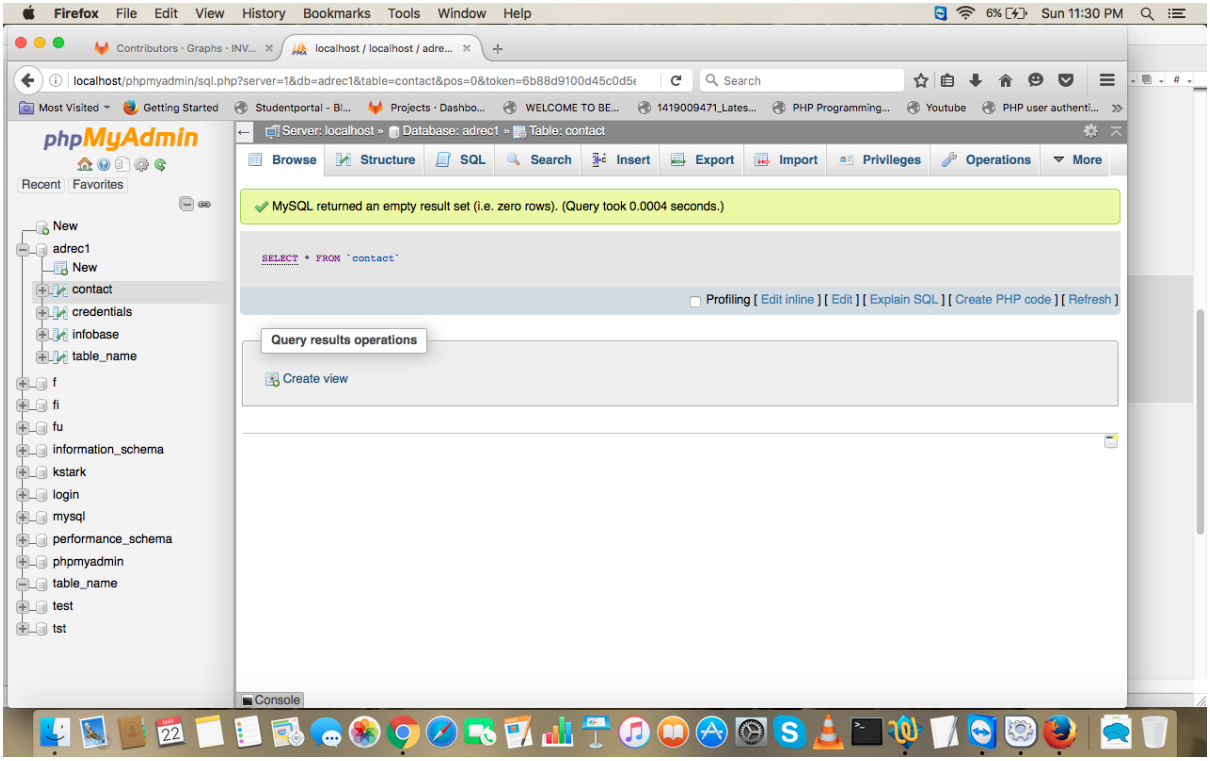
1.credentials table used for storing the details of the users



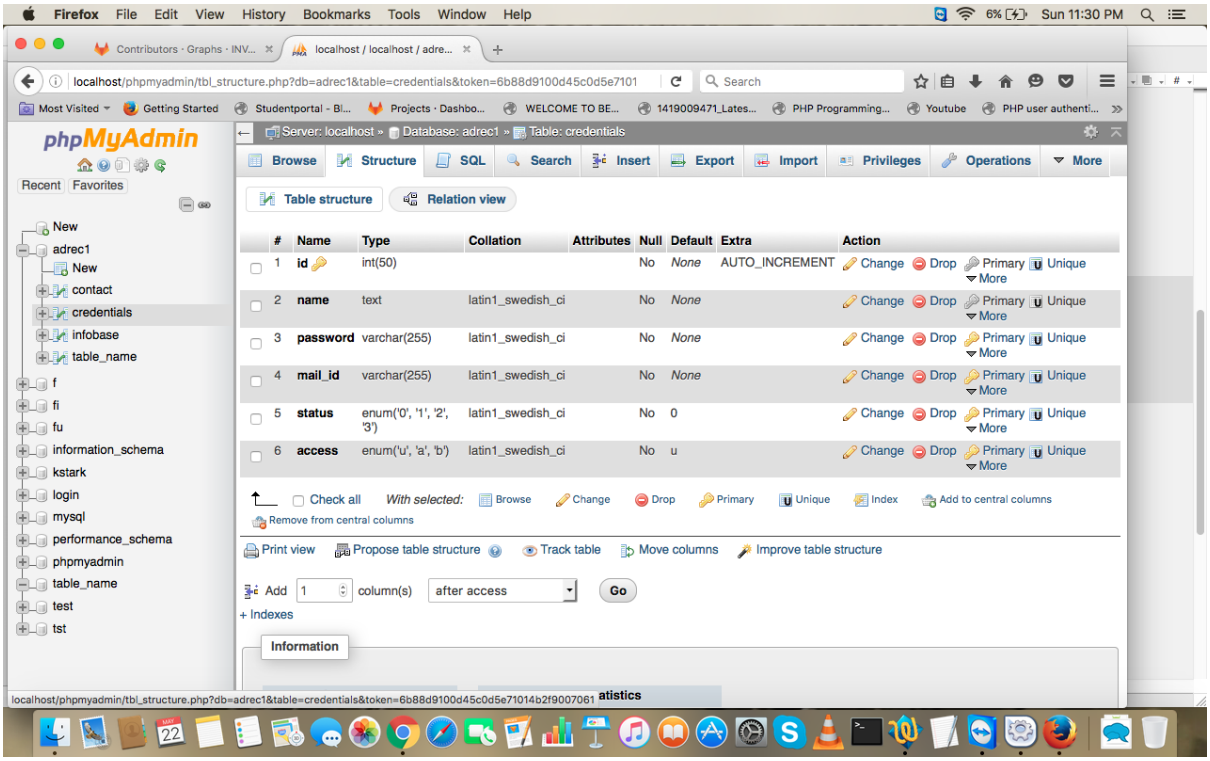
2.Infobase table used for storing the conversation between the users.



3.Contact table used for storing the contacts of the users.



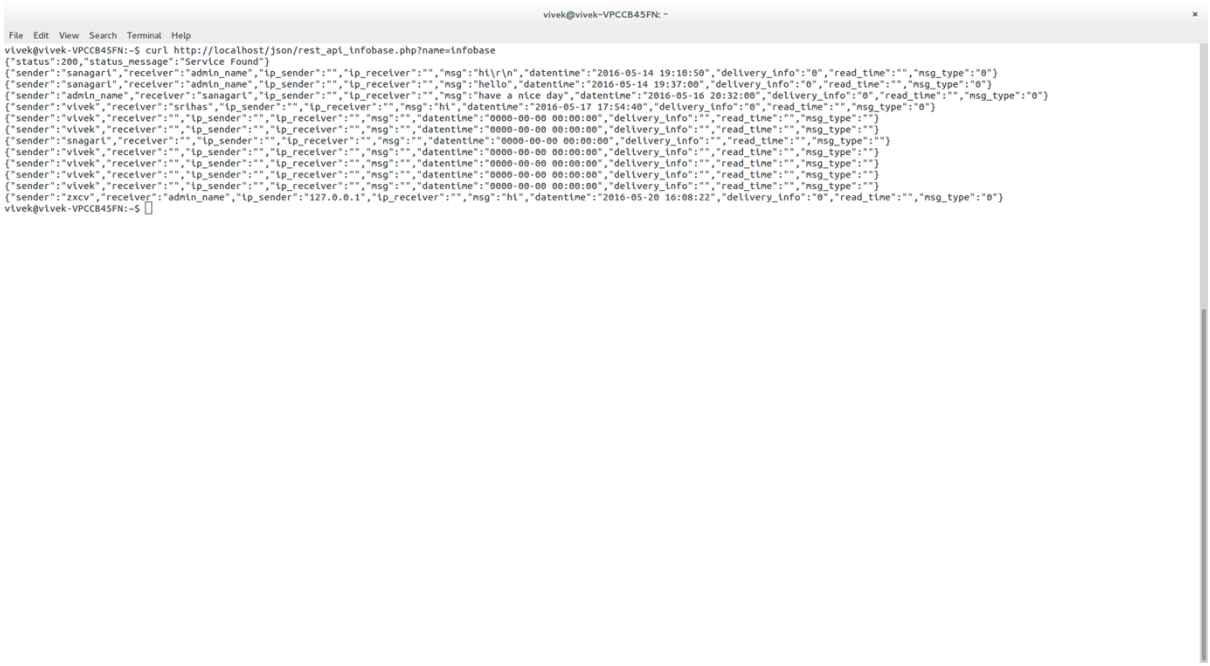
4.


phpMyAdmin
Server: localhost » Database: adrec1 » Table: credentials
Browse
Structure
SQL
Search
Insert
Export
Import
Privileges
Operations
More
Table structure
Relation view
Name Type Collation Attributes Null Default Extra Action
1 id int(50) No None AUTO_INCREMENT Change Drop Primary Unique More
2 name text latin1_swedish_ci No None Change Drop Primary Unique More
3 password varchar(255) latin1_swedish_ci No None Change Drop Primary Unique More
4 mail_id varchar(255) latin1_swedish_ci No None Change Drop Primary Unique More
5 status enum('0', '1', '2', '3') latin1_swedish_ci No 0 Change Drop Primary Unique More
6 access enum('u', 'a', 'b') latin1_swedish_ci No u Change Drop Primary Unique More
Check all With selected: Browse Change Drop Primary Unique Index Add to central columns
Remove from central columns
Print view Propose table structure Track table Move columns Improve table structure
Add 1 column(s) after access Go
+ Indexes
Information

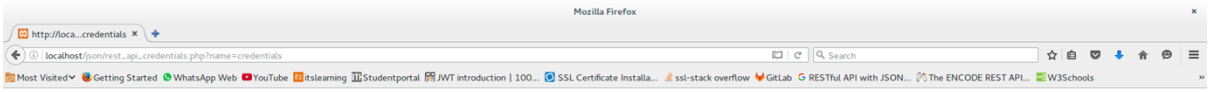
6.Restful API:

The product interacts with server and with user is based on RESTful API with JSON data encoding. This can be done through different methods like GET and POST. The information exchange between the database and web page will be in JSON format.

Get and post api are used in the entite system these APIs are tested using https and curl command line.The following figures shows the test results of API s in both HTTP and curl command line.



```
{"status":200,"status_message":"Service Found"}
{"sender":"sanagari","receiver":"admin_name","ip_sender":"","ip_receiver":"","msg":"hi\r\n","datentime":"2016-05-14 19:10:50","delivery_info":"0","read_time":"","msg_type":"0"}
{"sender":"sanagari","receiver":"admin_name","ip_sender":"","ip_receiver":"","msg":"hello","datentime":"2016-05-14 19:37:00","delivery_info":"0","read_time":"","msg_type":"0"}
{"sender":"admin_name","receiver":"sanagari","ip_sender":"","ip_receiver":"","msg":"have a nice day","datentime":"2016-05-16 20:32:00","delivery_info":"0","read_time":"","msg_type":"0"}
{"sender":"vivek","receiver":"srihas","ip_sender":"","ip_receiver":"","msg":"hi","datentime":"2016-05-17 17:54:40","delivery_info":"0","read_time":"","msg_type":"0"}
{"sender":"vivek","receiver":"","ip_sender":"","ip_receiver":"","msg":"","datentime":"0000-00-00 00:00:00","delivery_info":"","read_time":"","msg_type":""}
{"sender":"vivek","receiver":"","ip_sender":"","ip_receiver":"","msg":"","datentime":"0000-00-00 00:00:00","delivery_info":"","read_time":"","msg_type":""}
{"sender":"snagari","receiver":"","ip_sender":"","ip_receiver":"","msg":"","datentime":"0000-00-00 00:00:00","delivery_info":"","read_time":"","msg_type":""}
{"sender":"vivek","receiver":"","ip_sender":"","ip_receiver":"","msg":"","datentime":"0000-00-00 00:00:00","delivery_info":"","read_time":"","msg_type":""}
{"sender":"vivek","receiver":"","ip_sender":"","ip_receiver":"","msg":"","datentime":"0000-00-00 00:00:00","delivery_info":"","read_time":"","msg_type":""}
{"sender":"vivek","receiver":"","ip_sender":"","ip_receiver":"","msg":"","datentime":"0000-00-00 00:00:00","delivery_info":"","read_time":"","msg_type":""}
{"sender":"zxcv","receiver":"admin_name","ip_sender":"127.0.0.1","ip_receiver":"","msg":"hi","datentime":"2016-05-20 16:08:22","delivery_info":"0","read_time":"","msg_type":"0"}
```


```
{"status":200,"status_message":"Service Found"}
{"name":"admin_name","password":"admin_password","mail_id":"admin_mail_id","status":"0"}
{"name":"sanagari","password":"vivek","mail_id":"jithendra.vivek@gmail.com","status":"0"}
{"name":"\"asdf\"","password":"\"asdf\"","mail_id":"\"asdf@gmail.com\"","status":"0"}
{"name":"\"piuhui\"","password":"\"vouyv\"","mail_id":"\"vou\"","status":"0"}
{"name":"vuyv","password":"vouv","mail_id":"ouubou","status":"0"}
{"name":"srihas","password":"","mail_id":"","status":"1"}
{"name":"ghinn","password":"","mail_id":"","status":"1"}
{"name":"hgfd","password":"","mail_id":"","status":"1"}
{"name":"","password":"","mail_id":"","status":"1"}
{"name":"vk6","password":"vk6","mail_id":"vk6@gmail.com","status":"0"}
{"name":"vk6","password":"vk6","mail_id":"vk6@gmail.com","status":"0"}
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{"name":"cba","password":"","mail_id":"","status":"1"}
{"name":"cba","password":"","mail_id":"","status":"1"}
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{"name":"zxcv","password":"zxcv","mail_id":"zxcv","status":"0"}
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{"name":"vk10","password":"vk10","mail_id":"vk10@gmail.com","status":"0"}
{"name":"vk10","password":"vk10","mail_id":"vk10@gmail.com","status":"0"}
{"name":"vk11","password":"vk11","mail_id":"vk11@gmail.com","status":"0"}
{"name":"vk12","password":"vk12","mail_id":"vk12@gmail.com","status":"0"}
{"name":"vk13","password":"vk13","mail_id":"vk13@gmail.com","status":"0"}
```


7.EXTENSIONS OF THE PRODUCT

The functionality of the product can further improved by adding additional features to the chat function like the exchange of audio and video files, group chat, voice recording, video chat.

References:

[1]. Xtreme Security Project Request, available at link https://drive.google.com/file/d/0B-IPzXOrtPFSeWZVY1pzSnRIV0E/view