**CONTACT MANAGEMENT SYSTEM**

## Advance Data Base

## 603-C

#### Wizards at work

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Sacred Heart University

School of Computer Science & Engineering

The Jack Welch College of Business &Technology

Submitted To:

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Spring 2022

### **Phase 2 Report of Contact Management System**

### **Team Name**

Wizards at Work

### **Team Members**

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### **Roles of Team Members**

1. Prudhvi sai akhil Thumu.

I’m Prudhvi sai akhil Thumu, Graduate Computer Science student at Sacred Heart University.

Completed my Under graduation from Gitam University in India and, I acquired experience in IT industry as a cloud DevOps Engineer. My role in this project is to be Monitoring the team activities as a team lead, involving in the development of GUI, API and Database system for Contact management System and Creating Different Tables which are essential for the Contact Management System (CMS).

1. Sandeep Yepuri.

I’m Sandeep Yepuri, Graduate Computer Science student at Sacred Heart University.

Completed my Under graduation from KLU University in India and, I acquired experience in IT industry as a full stack developer. My role in this project to develop UI interface for contact management system and will share some work in API.

3.Chetan Sai Tallamudi.

I’m Chetan Sai Tallamudi, Graduate Computer Science student at Sacred Heart University. Completed my Under graduation from St Joseph in India. My role in this project to develop API in order to connect the GUI with backend database and will do some part of work in database.

1. Nikhilender Reddy Baddam.

I’m Nikhilender Reddy Baddam, Graduate Computer Science student at Sacred Heart

University. Completed my Under graduation from VNR VJIET institute of Technology

in India. I acquired experience in IT industry as a Python developer. My role in this project to develop the database with different tables for the Contact management System using the different tables in MySQL.

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**Project Description**

Contact Management System (CMS) stores different types of information such as Telephone number, Mailing Address, Contact name, Phone number, Fax Number, Home number and Address. The CMS will store the user data in distinct SQL tables with different user types.

* CMS can ask the admin username and password to login and password should contain 8 characters. CMS can be able to change the admin user and Password.
* Admin user or root user can add new user to the CMS by adding the username and password to the database which cannot done by the normal user.
* Admin user can remove user from the CMS by removing username, password and any other related data.
* Every user can be able to add the contact information like first name, sur name, phone number, workplace number, workplace address, home address, zip code, fax number, email address, gender and age.
* Every user can be able to remove the contact information
* Every user can be able to edit the contact details
* CMS can display the information using various search options where users are able to search with contact number to get other details like name and mail address
* CMS graphical user interface (GUI) is very user friendly where it can show the warnings where the user is trying to put the contact information which is exist in tables.
* CMS GUI shows a beautiful welcome page
* CMS GUI can show all available options and functions to the end user
* CMS can show the reports in the tabular form
* CMS can be able to provide the exit functionality on the GUI

**EER Diagram Description:Text, whiteboard

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**Figure 1:** ER Diagram for CMS

**Diagram

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**Figure 2:** EER Diagram for CMS

ER diagram for CMS consists of 10 tables which are stated below

1. Login (login\_id, login\_role\_id, login\_username, user\_password)
2. User (user\_id, user\_name, user\_mobile, user\_address, user\_email, user\_rolid, user\_perid)
3. Roles (role\_id, role\_name, role\_desc)
4. Address (add\_place, add\_desc,add\_zip)
5. Mobile (mobile\_des, mob\_num)
6. Permission (per\_id, per\_role\_id, per\_name, per\_module)
7. Contacts (con\_num, con\_des)
8. Company (company\_id, company\_name, company\_add, company\_num, company\_mail, company\_lev)
9. Email (per\_email,office\_mail)
10. Customer (cus\_id, cus\_name, cus\_mobile, cus\_email, cus\_add, cus\_comid, company\_com\_id, cus\_dob,cus\_age)

All the tables shown above are to implement the database for Contact Management System (CMS). Data which is going to store inside the CMS database is purely end user information who are working in different organizations and having different roles. For CMS in order to maintain the relationship between among the entities in the tables used one to many relationship and one to one relationship.

* The purpose of User table is to manage the customer's data
* The purpose of Login table is to store the login credentials like username and password etc.
* The purpose of roles table is to assign the different roles to user like admin, developer etc.
* The purpose of Permissions table to assign different permissions to end user.
* The purpose of manage table is for user to manage the customer data.
* The Purpose of customer table is to store the customer data.
* The purpose of email table is to add or manipulate the customer's email.
* The purpose of contacts table is to add or manipulate the customer's contacts.
* The purpose of address table is to add or manipulate the customer's address.
* The purpose of company table is to add or manipulate the customer's company data.

1. Partial Participation - User table
2. Total Participation – Customer table
3. Multivalued attribute – emails and contacts (single user may have multiple emails and multiple contacts)
4. Composite attribute – Name (F\_name, M\_name, L\_name)
5. Derived attribute – age of the user can be derived from the date of birth of the user.
6. Weak entities – Email table and contacts table

**Technical Specifications**

CMS Technical specifications are:

* GUI- React Js
* API- .net
* Backend Database- MySQL

**GitHub Repository Address**

GitHub Repository address for the Contact Management System (CMS) is the following: <https://github.com/prudhviakhil619/contact-management-system>

**References**

* [https://monday.com/blog/project-management/contact-management-database/](https://monday.com/blog/project-management/contact-management-database/%20)