

# Contact Management System

Database Management Systems  
MSCS 542L

Marist Database Administrators (DBA's)



Marist College  
School of Computer Science and Mathematics

Submitted To:  
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## Project Report of Contact Management System

### Team Name

Marist DBA's

### Team Members

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### Description of Team Members

1. Noah Carbo
  - a. My name is Noah Carbo, I am working on my master's in Software Development at Marist College. I wanted to work with my group based on their proximity to where I sat on the first day of class. Everyone on the team seems very competent in their fields and we have agreed on communicating through Whatsapp while working on this project. I am looking forward to working with everyone this semester.
2. Theresa Gundel
  - a. I graduated from Binghamton University in 2021 with a Bachelor's in Computer Science. Now I am pursuing a Master's in Computer Science at Marist College. I did not know anyone in the class beforehand so I chose to work with this group because we were sitting near each other in class. We chose Noah as Team Head because he volunteered first and seemed like a good fit.
3. Ryan Weidling
  - a. My name is Ryan and I am working on my second degree from Marist. I graduated in 2018 with a Bachelor's in Communications and am now pursuing a Master's in Computer Science to pursue a career in software engineering. I wanted to work with the current group members because of two reasons. One, they were in close proximity to me, and two, each person at some point in the first two weeks had demonstrated qualities that would make them great teammates. Whether that was showing

friendliness by introducing themselves when we sat down, or sharing their background and proving their technical prowess. We chose Noah as Team lead because when the project was announced he was already brainstorming ideas for what our group should be working on.

4. Dale Doster

- a. In 2020, I graduated with a degree in Computer Science from Marist College. My focus in undergrad was on Software Development. After having worked as a Software Engineer for the past couple years, I decided to pursue a Master's degree, again with a focus on Software Development. I decided to work with my team because they were sitting near me and were easily approachable. We decided to select Noah as the Team Head because he volunteered and has good communication skills.

5. Sai sumanth Gurralla

- a. I am Sai Sumanth, I graduated with a bachelors in computer science from Bharath University, India. I am currently working with my group members for the Database management project, because we were sitting together in class. And it made more sense once we got connected through a whatsapp group and shared our interests and work. I am confident that my team members are very competitive and together we can bring the most out of ourselves for the project of contact management system. We chose Noah as our team head, because we felt he was more capable of leading our team towards our goal.

6. Thomas Diaz-Piedra

- a. My name is Thomas. I graduated from Marist with a bachelors in computer science and minors in information systems and information technology last year. I wanted to work with my group mates because we all sat near each other on the first couple days of classes and we all seemed to have the same outlook when it came to this project. We chose Noah as the team head/leader as he volunteered to do it and seemed more than capable of doing the job. Really looking forward to working with this team this semester.

7. Banu Pitta Reddy

- a. My name is Banu Prakash, I graduated with a bachelors in Mechanical engineering from Jawaharlal Nehru Technological University, India. I have worked as a Software Quality Engineer for almost 9 years and decided to pursue my masters degree with focus on Cloud Computing. I met only a few mates in the class and found these people enthusiastic about the work. We spent some time sharing our interests and work, where I got to know more about my team members. Everyone in the team looks to be goal oriented and working towards a common objective. We chose Noah

to head the team as he volunteered to do it and we trust his efficiency with the level of confidence that he demonstrates. I am very excited to join the team and looking forward to a great collaboration in completing this project.

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## **Project Objective**

Project Title: Contact Management System

Summary: The Contact Management System (CMS) was conceived to allow for storage of any and all information that a user wants to store. These could include phone numbers, home addresses, email addresses and other information which are stored securely and distinctly from other user information. This system at a minimum supports the following functions:

1. Allows for admin access with a secure credentials and include the following abilities
  - a. To add/edit additional admins
  - b. Add and delete user profiles
  - c. Edit and manage user information
  - d. Allows for resetting usernames/passwords in the event the user locks themselves out of their accounts
2. Allows for users to customize their stored information with the following capabilities
  - a. Add/Delete multiple contact information
  - b. Allows for editing of saved contact information
  - c. Contacts can be searched based on their specific details
3. The CMS has a GUI which allows for interaction between the user and the database
  - a. The GUI prevents duplicate contacts to be added
  - b. It is user friendly including a welcome screen, provides reports in a tabular form and allows the user to exit the program.
4. Sensitive user information is ciphered so that in the unfortunate event of a hack of our user information the data that is collected would be indecipherable.

## **Review the Related Work**

One example of an existing Contact Management System (CMS) is Streak. This CMS is unique because it can integrate with Google products. This can be good for people who already use Google accounts, but for people who don't this is not that useful. A positive aspect of Streak is that it can integrate with Gmail to show the contact information, such as the company, of the person you're emailing. It can also show a timeline of all communications with a contact including emails, call logs, and files shared. Streak also has a good system for searching, sorting, filtering, and grouping contact data (Fuchs). The main negative aspect of Streak is that it's focused on Google products so if you don't use a Google account or Google Chrome then this CMS is not ideal (Scheiner, Streak).

Another example of a CMS is Nimble. Nimble has many positive aspects. For example, you can import contacts into Nimble from your Gmail and Outlook accounts as well as from an uploaded CSV file. Another cool feature is that Nimble can scan email signatures and use that information to keep your contacts up to date. A negative aspect of Nimble is that you're limited to 25,000 contacts unless you want to pay to have more. Also, Nimble attempted to include email access in their tool but it lacks a lot of common functions like accessing folders (Singleton).

A third example of a real-world CMS is Keap. A good feature of Keap is their user-friendly platform. They also have thousands of integration options such as Gmail, Outlook, and Quickbooks (Keap). Based on these integrations, Keap automatically keeps all your contact data up to date (Fuchs). A flaw that Keap has is it does not allow users to make calls from their platform. Users can make calls separately and log them after, but Keap does not automatically track calls (Sceiner, Keap).

## **The Merits of our Project**

Our contact management system will have a number of key capabilities provided for the end user that will entice them to utilize our CMS over a competitor. Our CMS will allow for both admin and standard user login, with admin access allowing for full control over additional admin processes, adding/deleting user profiles, editing/managing user information, and allowing for the resetting of usernames/passwords in the event the user locks themselves out of their accounts. Additionally, users will be able to customize their stored information with the following capabilities: add/delete multiple pieces of contact data, edit saved contact information, and search within the CMS. Our CMS will have a GUI which will allow for users to interact with the database. One of the main draws to our CMS will be the idea that the GUI will help prevent duplicate contacts from being added. On top of a functional GUI, our CMS will cipher sensitive user information so that in the unfortunate event of a hack, our users' information will be indecipherable and safe from bad actors.



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