CONTACT MANAGER

Group 10

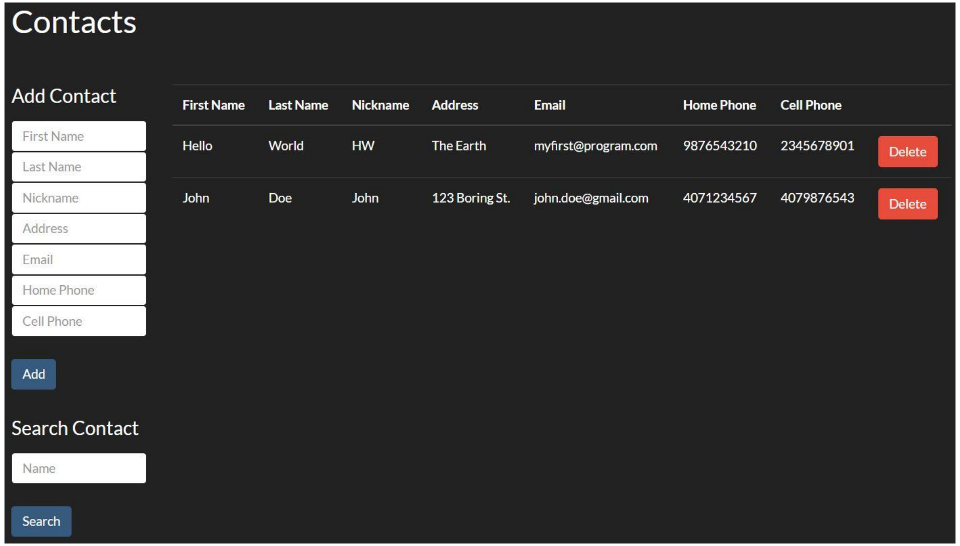
Group Members

- Haerunnisa Dewindita
  - Project Setup, Database Integration, Contact Add/Delete & User Login/Register w/ AJAX, User Error Handling
- John Albury
  - Database Integration, Angular, Contact Add/Delete
- Joshua Sylvestre
  - UI, Contact Search w/ AJAX, Documentation
- Huy Dang
  - UI, Angular
- Alana Arjune
  - Diagrams, Database Setup, Documentation
- Abdulfattah Isleem
  - Project Setup, AJAX
- Subhash Naidu
  - UI, Database Setup

What does the Contact Manager do?

Our contact manager allows users to do the following:

- Create an account by entering the following information: first name, last name, email, username, and password
- Add contacts to a personal contact list that stores the following information: first name, last name, nickname, address, email address, home phone number, and cell phone number
- Search for contacts by first and/or last name
- Delete contacts from the contact list

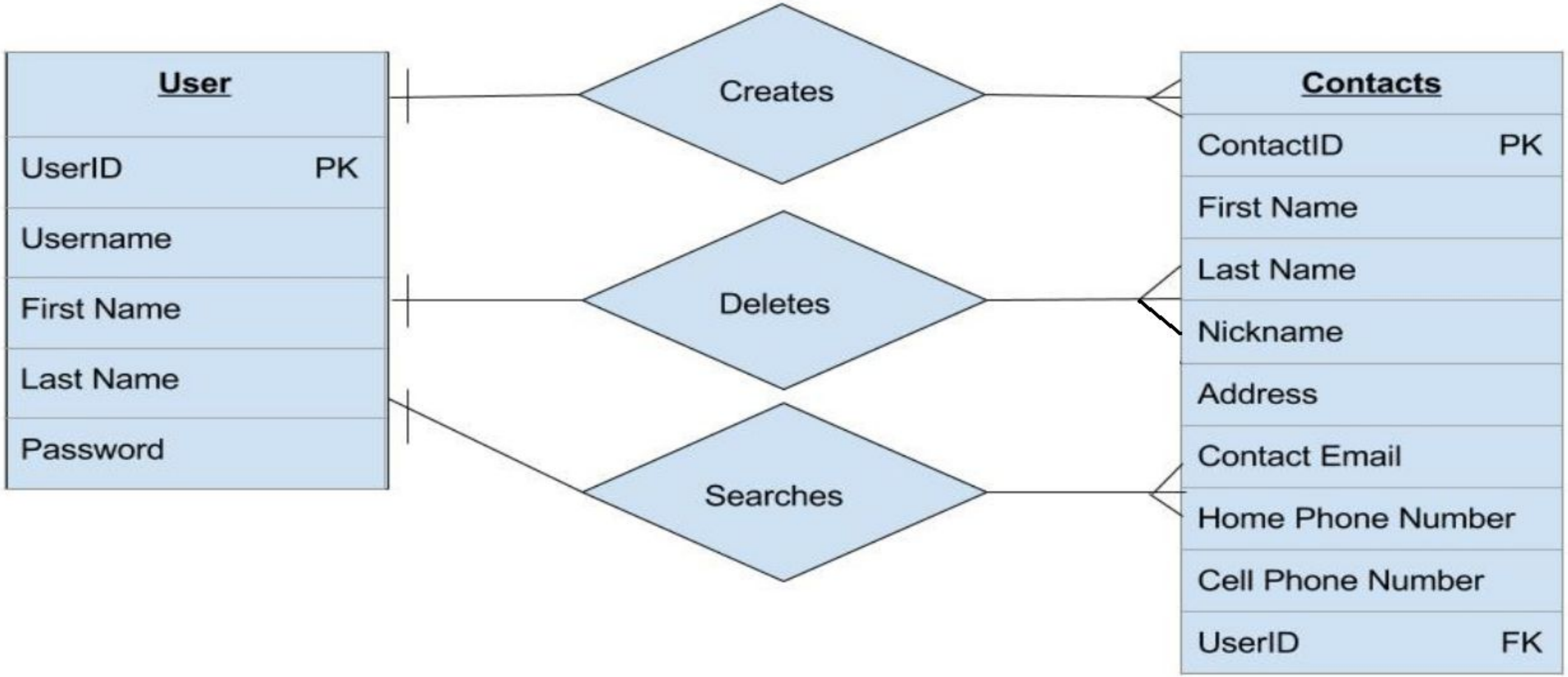

Contacts

Add Contact

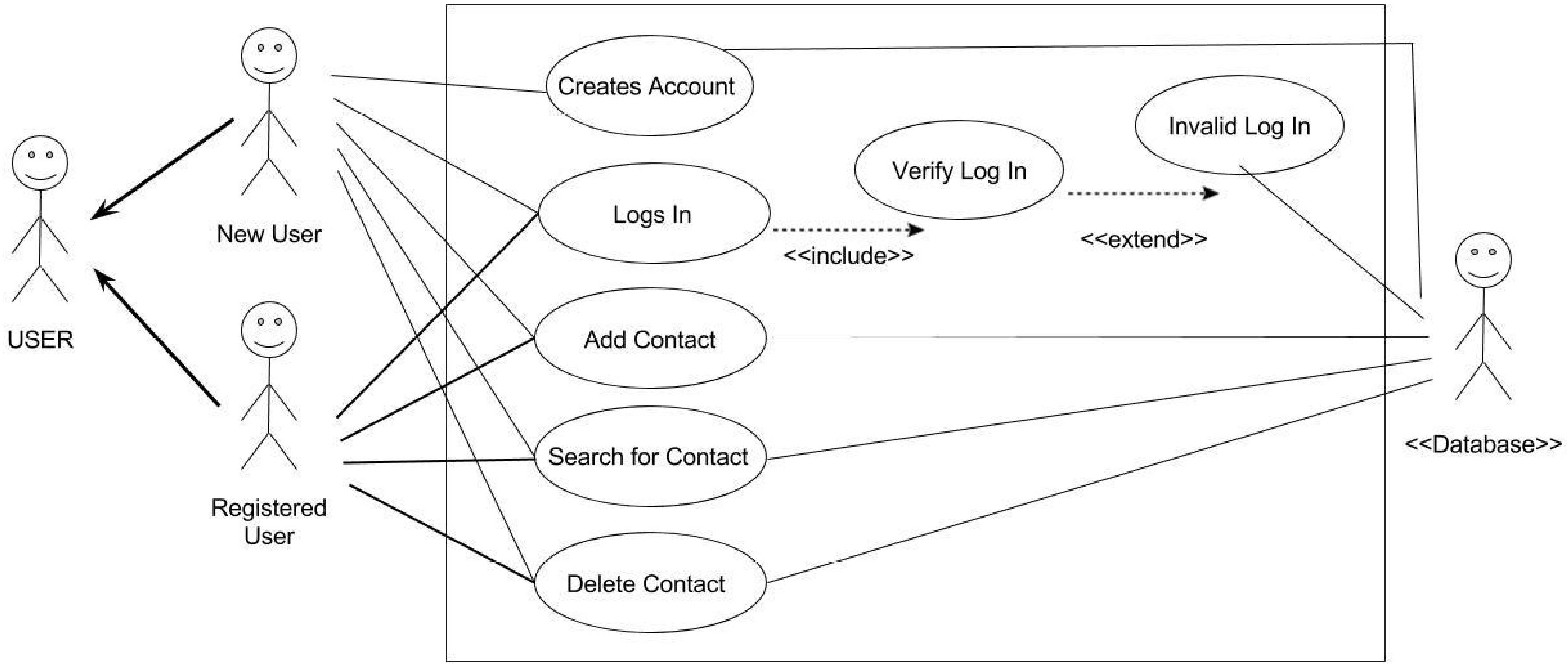
Search Contact

First Name	Last Name	Nickname	Address	Email	Home Phone	Cell Phone	
Hello	World	HW	The Earth	myfirst@program.com	9876543210	2345678901	Delete
John	Doe	John	123 Boring St.	john.doe@gmail.com	4071234567	4079876543	Delete

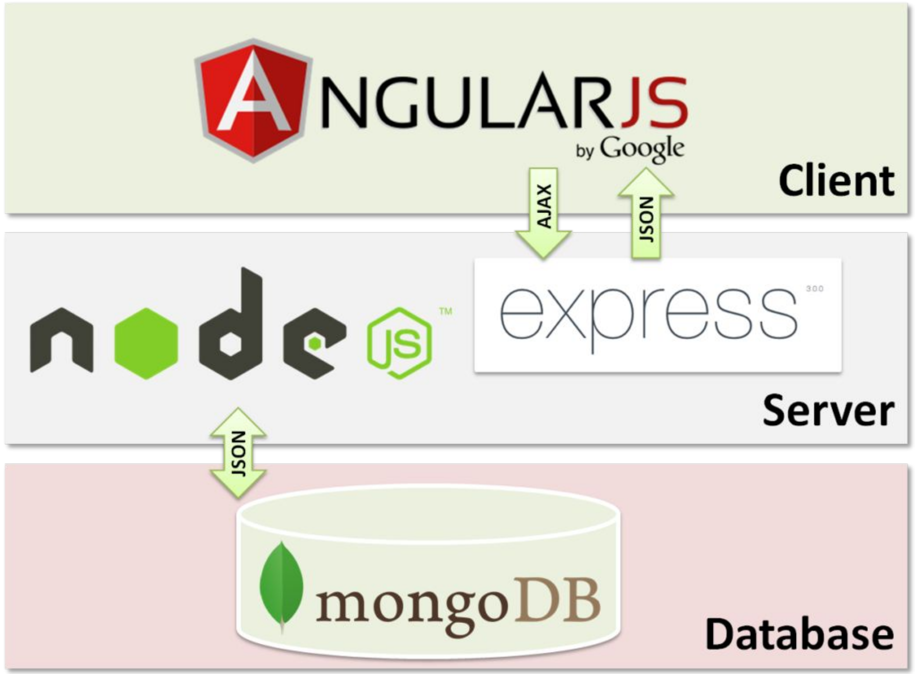
ER Diagram


User
UserID PK
Username
First Name
Last Name
Password
Creates
Deletes
Searches
Contacts
ContactID PK
First Name
Last Name
Nickname
Address
Contact Email
Home Phone Number
Cell Phone Number
UserID FK

UML - Use Case Diagram



MEAN Stack



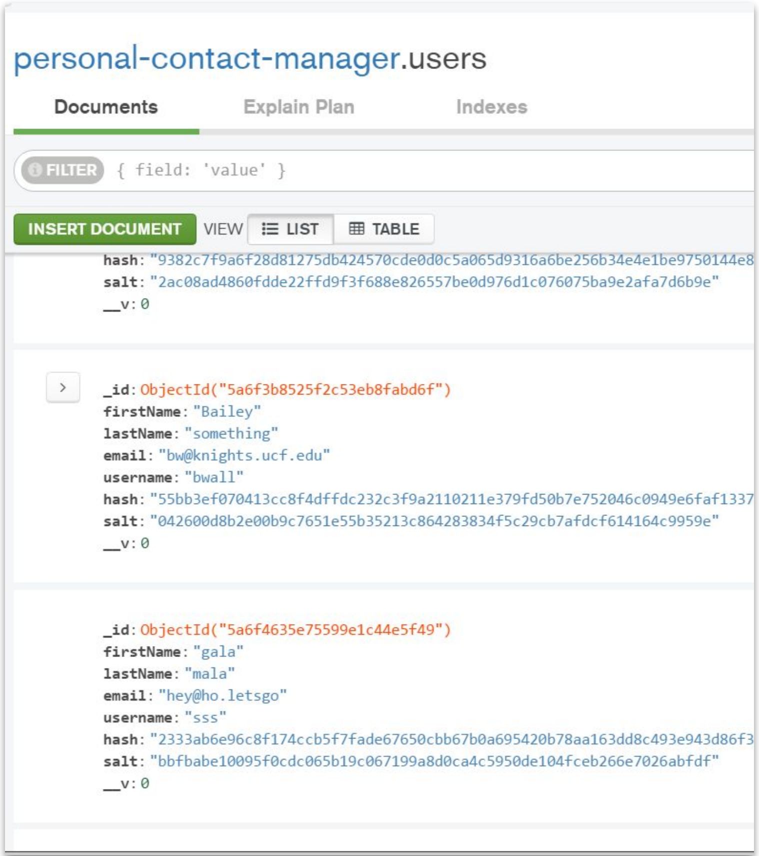
For our project, we used the MEAN stack. MEAN stands for:

- Mongo DB: The database system we used.
- Express: The back-end web application framework.
- Angular.js: A front-end framework that we used to make our website more dynamic.
- Node.js: Our run-time environment for our server side code.

Data Hosting using MongoDB Atlas

We used MongoDB Atlas which is a database as a service application to host the user data.
This method provides a lot of security and ease of use benefits, which helps protect the user’s data while keeping the website easy to maintain.

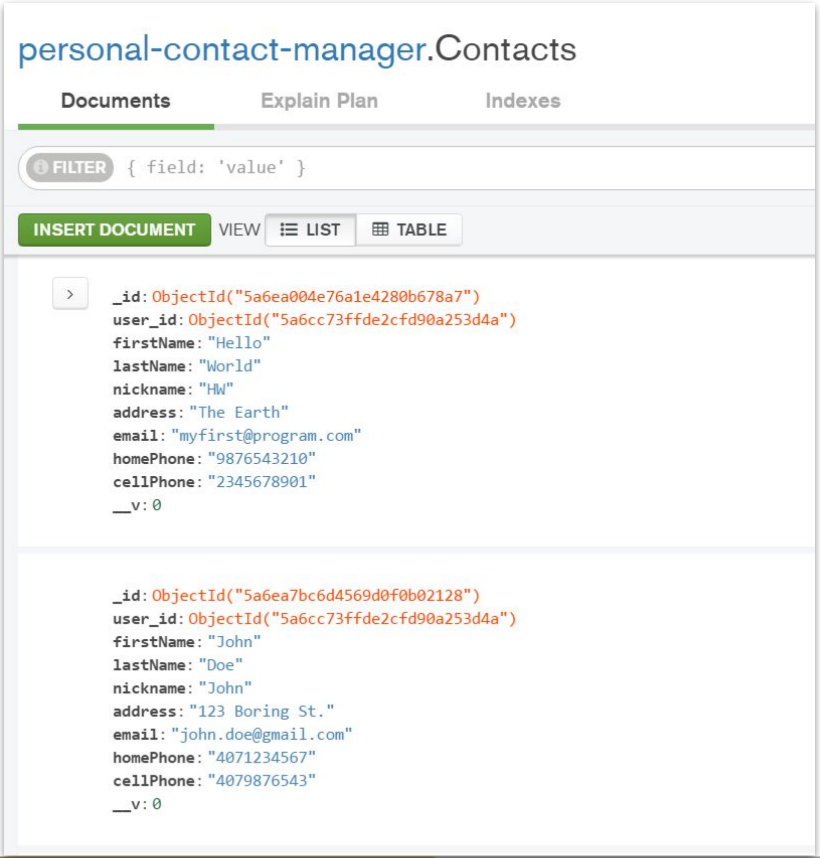
What Data Looks Like In MongoDB Atlas



```
hash: "9382c7f9a6f28d81275db424570cde0d0c5a065d9316a6be256b34e4e1be9750144e8
salt: "2ac08ad4860fdde22ffd9f3f688e826557be0d976d1c076075ba9e2afa7d6b9e"
__v: 0

_id: ObjectId("5a6f3b8525f2c53eb8fabd6f")
firstName: "Bailey"
lastName: "something"
email: "bw@knights.ucf.edu"
username: "bwall"
hash: "55bb3ef070413cc8f4dffdc232c3f9a2110211e379fd50b7e752046c0949e6faf1337
salt: "042600d8b2e00b9c7651e55b35213c864283834f5c29cb7afdcf614164c9959e"
__v: 0

_id: ObjectId("5a6f4635e75599e1c44e5f49")
firstName: "gala"
lastName: "mala"
email: "hey@ho.letsgo"
username: "sss"
hash: "2333ab6e96c8f174ccb5f7fade67650cbb67b0a695420b78aa163dd8c493e943d86f3
salt: "bbfbabe10095f0cdc065b19c067199a8d0ca4c5950de104fceb266e7026abfdf"
__v: 0
```



```
_id: ObjectId("5a6ea004e76a1e4280b678a7")
user_id: ObjectId("5a6cc73ffde2cfd90a253d4a")
firstName: "Hello"
lastName: "World"
nickname: "HW"
address: "The Earth"
email: "myfirst@program.com"
homePhone: "9876543210"
cellPhone: "2345678901"
__v: 0

_id: ObjectId("5a6ea7bc6d4569d0f0b02128")
user_id: ObjectId("5a6cc73ffde2cfd90a253d4a")
firstName: "John"
lastName: "Doe"
nickname: "John"
address: "123 Boring St."
email: "john.doe@gmail.com"
homePhone: "4071234567"
cellPhone: "4079876543"
__v: 0
```

Roadblocks/Complicated Issues We Somehow Finessed

1. Setting up the MEAN stack components
2. Integration
3. Learning new frameworks
4. Implement user error-handling
5. Implementing AJAX
6. Getting Add/Delete buttons to respond
7. Heroku App Deployment

Demo Time!!!

https://personal-contact-manager.herokuapp.com/