KNIGHT'S CONTACT MANAGER

COP 4331

Group 19

Small Project

02-10-2022

Team Members

Benjamin: Database

Ryan: API

Karina: API

Gabriela: Front-End

Waseem: Project Manager

What Is KCM?

- Knight's Contact Manager is your one shop tool to keep track of all your knights friends
- KCM supports **phone numbers** and **email addresses**, and allows you to easily **edit** and **delete** any contacts!
- KCM's partial search feature will quickly show you any contacts that match the input

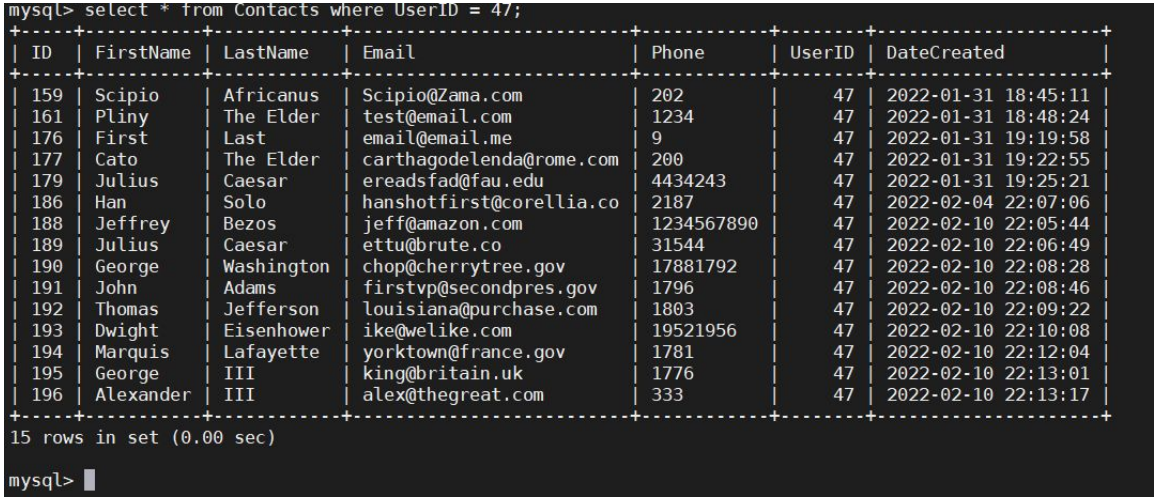
Use Case Diagram

Technologies

- **LAMP stack**
  - Linux for the server OS
  - Apache for the webserver
  - MySQL for the database
  - PHP for the API Endpoints
- **Hosting provided by DigitalOcean**
- **Domain secured with GoDaddy**
- **SwaggerHub & ARC for APIs**
- **Visual Studio Code**
- **GitHub**
- **Discord**

Database

- MySQL
- Accessed through CLI on Ubuntu
- Developed using the Colors demo as a prototype



```
mysql> select * from Contacts where UserID = 47;
+-----+-----------+-----------+-------------------------+------------+--------+---------------------+
| ID  | FirstName | LastName  | Email                   | Phone      | UserID | DateCreated         |
+-----+-----------+-----------+-------------------------+------------+--------+---------------------+
| 159 | Scipio    | Africanus | Scipio@Zama.com         | 202        |     47 | 2022-01-31 18:45:11 |
| 161 | Pliny     | The Elder | test@email.com          | 1234       |     47 | 2022-01-31 18:48:24 |
| 176 | First     | Last      | email@email.me          | 9          |     47 | 2022-01-31 19:19:58 |
| 177 | Cato      | The Elder | carthagodelenda@rome.com | 200        |     47 | 2022-01-31 19:22:55 |
| 179 | Julius    | Caesar    | ereadsfad@fau.edu       | 4434243    |     47 | 2022-01-31 19:25:21 |
| 186 | Han       | Solo      | hanshotfirst@corellia.co | 2187       |     47 | 2022-02-04 22:07:06 |
| 188 | Jeffrey   | Bezos     | jeff@amazon.com         | 1234567890 |     47 | 2022-02-10 22:05:44 |
| 189 | Julius    | Caesar    | ettu@brute.co           | 31544      |     47 | 2022-02-10 22:06:49 |
| 190 | George    | Washington | chop@cherrytree.gov     | 17881792   |     47 | 2022-02-10 22:08:28 |
| 191 | John      | Adams     | firstvp@secondpres.gov  | 1796       |     47 | 2022-02-10 22:08:46 |
| 192 | Thomas    | Jefferson | louisiana@purchase.com  | 1803       |     47 | 2022-02-10 22:09:22 |
| 193 | Dwight    | Eisenhower | ike@welike.com          | 19521956   |     47 | 2022-02-10 22:10:08 |
| 194 | Marquis   | Lafayette | yorktown@france.gov     | 1781       |     47 | 2022-02-10 22:12:04 |
| 195 | George    | III       | king@britain.uk         | 1776       |     47 | 2022-02-10 22:13:01 |
| 196 | Alexander | III       | alex@thegreat.com       | 333        |     47 | 2022-02-10 22:13:17 |
+-----+-----------+-----------+-------------------------+------------+--------+---------------------+
15 rows in set (0.00 sec)

mysql>
```

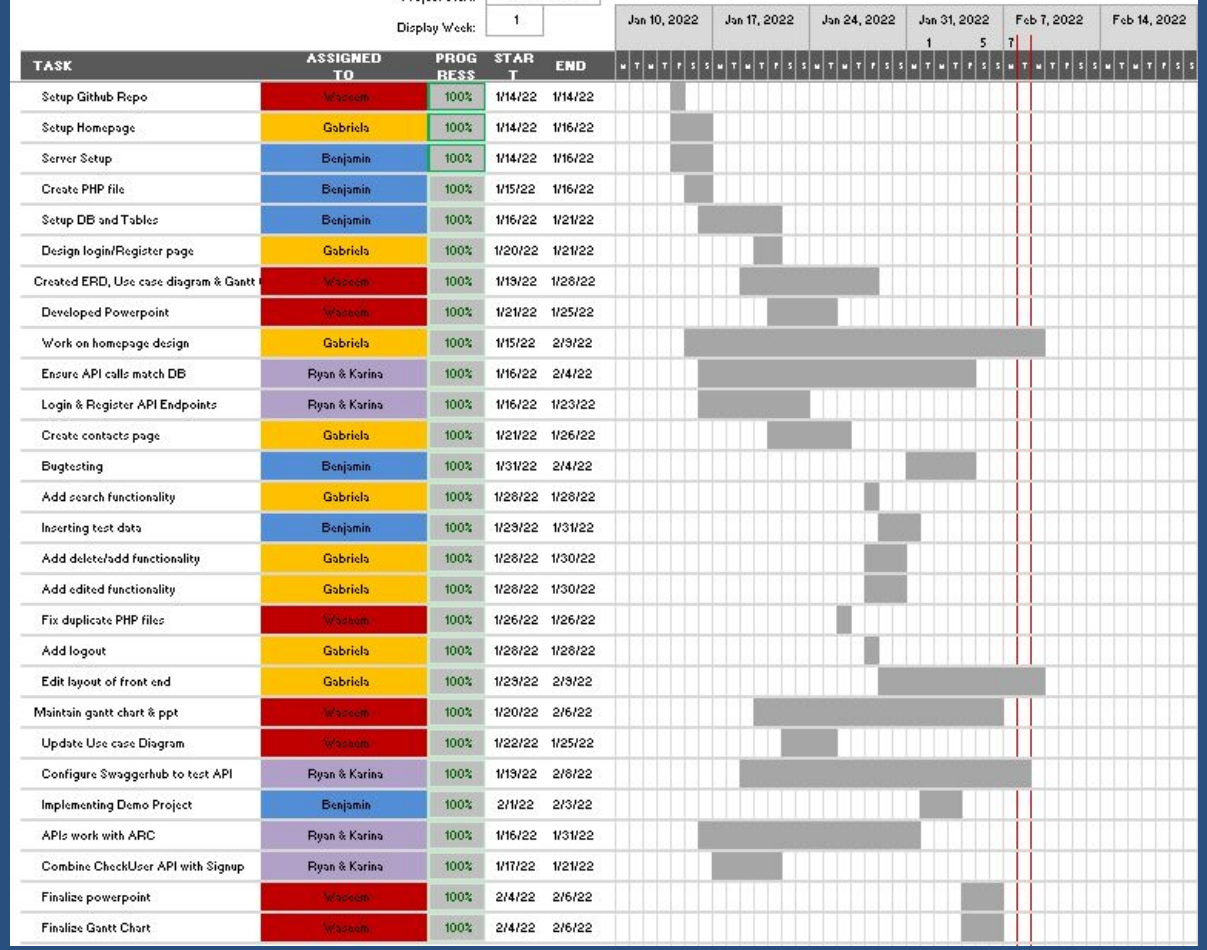
Gantt Chart

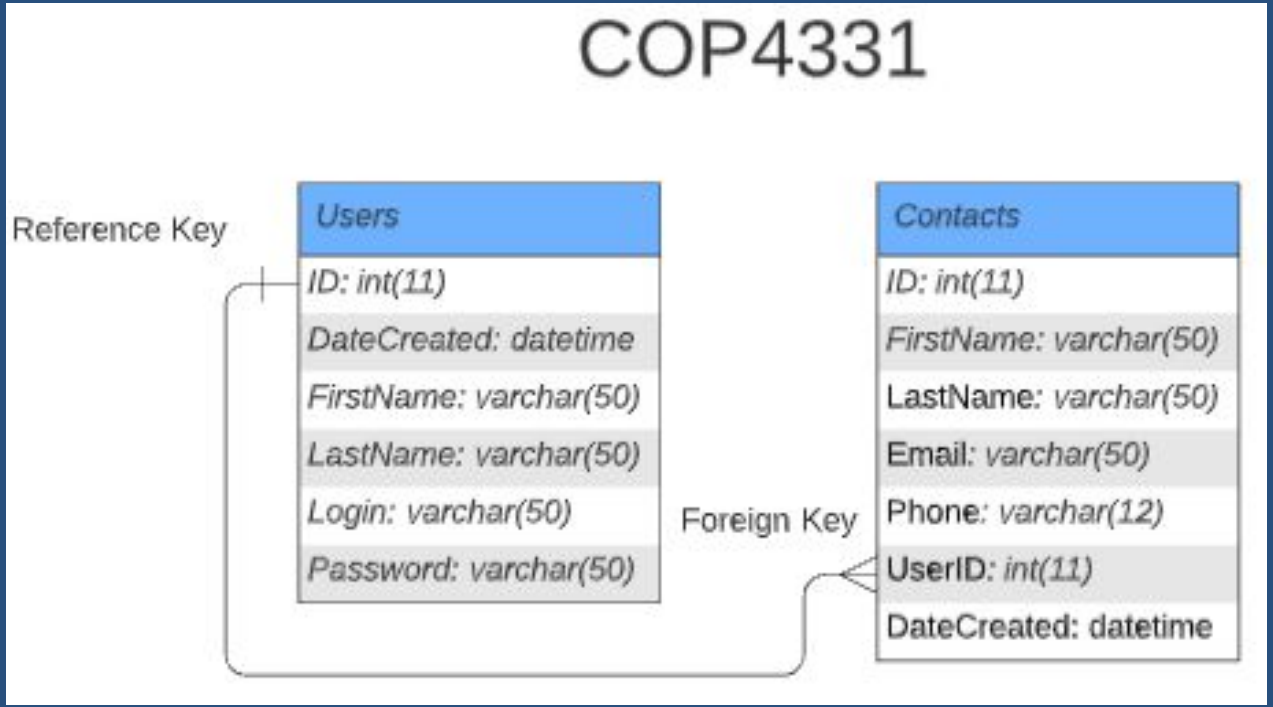
Knights Contact Manager

Small Project
Group#19

Project Start: Fri, 1/14/2022
Display Week: 1

TASK	ASSIGNED TO	PROGRESS	START	END
Setup Github Repo	Waseem	100%	1/14/22	1/14/22
Setup Homepage	Gabriela	100%	1/14/22	1/16/22
Server Setup	Benjamin	100%	1/14/22	1/16/22
Create PHP file	Benjamin	100%	1/15/22	1/16/22
Setup DB and Tables	Benjamin	100%	1/16/22	1/21/22
Design login/Register page	Gabriela	100%	1/20/22	1/21/22
Created ERD, Use case diagram & Gantt	Waseem	100%	1/19/22	1/28/22
Developed Powerpoint	Waseem	100%	1/21/22	1/25/22
Work on homepage design	Gabriela	100%	1/15/22	2/9/22
Ensure API calls match DB	Ryan & Karina	100%	1/16/22	2/4/22
Login & Register API Endpoints	Ryan & Karina	100%	1/16/22	1/23/22
Create contacts page	Gabriela	100%	1/21/22	1/26/22
Bugtesting	Benjamin	100%	1/31/22	2/4/22
Add search functionality	Gabriela	100%	1/28/22	1/28/22
Inserting test data	Benjamin	100%	1/29/22	1/31/22
Add delete/add functionality	Gabriela	100%	1/28/22	1/30/22
Add edited functionality	Gabriela	100%	1/28/22	1/30/22
Fix duplicate PHP files	Waseem	100%	1/26/22	1/26/22
Add logout	Gabriela	100%	1/28/22	1/28/22
Edit layout of front end	Gabriela	100%	1/29/22	2/9/22
Maintain gantt chart & ppt	Waseem	100%	1/20/22	2/6/22
Update Use case Diagram	Waseem	100%	1/22/22	1/25/22
Configure Swaggerhub to test API	Ryan & Karina	100%	1/19/22	2/8/22
Implementing Demo Project	Benjamin	100%	2/1/22	2/3/22
APIs work with ARC	Ryan & Karina	100%	1/16/22	1/31/22
Combine CheckUser API with Signup	Ryan & Karina	100%	1/17/22	1/21/22
Finalize powerpoint	Waseem	100%	2/4/22	2/6/22
Finalize Gantt Chart	Waseem	100%	2/4/22	2/6/22





Entity Relationship Diagram

API

API Endpoints - Developed in PHP

- ➔ Login
- ➔ Register
- ➔ AddContact
- ➔ EditContact
- ➔ SearchContact
- ➔ DeleteContact

Swagger Hub:

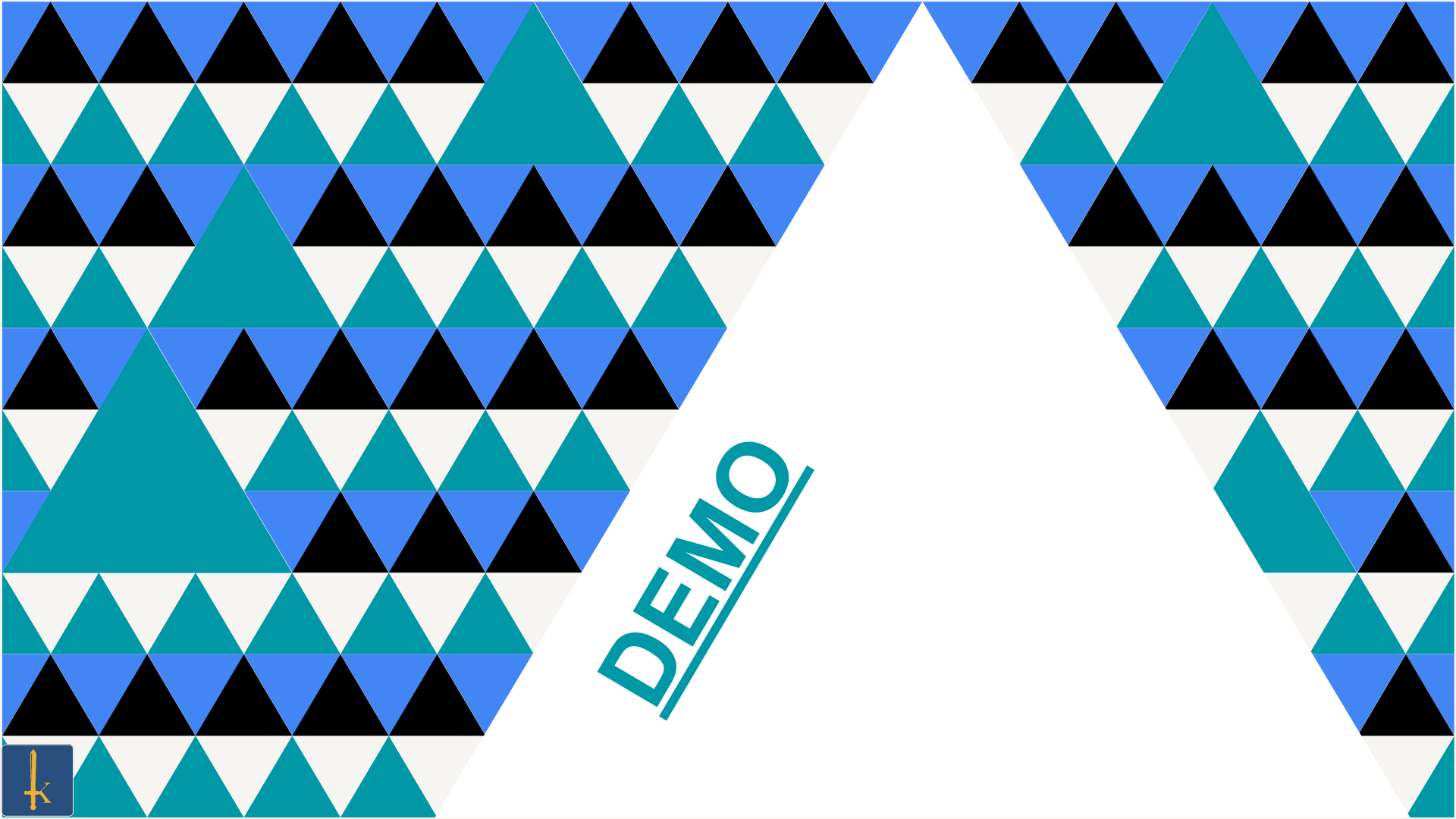
We utilized SwaggerHub to document and test the API endpoints of our application. This was useful especially for front end development.

ARC:

Used to test the API endpoints functionality

Front End

- ➔ Developed with **HTML/CSS** and **JavaScript**.
- ➔ Multiple screens for **login/register, create/search/delete,** and **update**
- ➔ Search shows 6 results at a time with next/previous arrows


DEMO

The Good and the Bad...

- ➔ Motivation, and willingness to learn
- ➔ Effectively used resources to learn new material (PHP, mySQL, Javascript, etc)
- ➔ Communication & Collaboration

- ➔ Started Gantt Chart tracking late
- ➔ Hours of debugging only to find a field was misspelled / incorrect capitalization of fields between API and database, as well as between front end and database

Questions?

Thank you!