

CSC 648/848 SW Engineering Fall 2020

SurgeHut

Section 02

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Milestone 5

Documentation & Version	Date Submitted	CTO/CEO Feedback	Revision Date
Milestone 5, Version 1	12/1/2020		

PRODUCT SUMMARY

In order to find information regarding the two large scale events that California had to deal with, people had to check a wide variety of sources to find the pertinent information. However, with SurgeHut the entire process can be streamlined and expedited. By providing a central platform where California residents can both access and update information (with proper verification), a significant amount of time would be saved and the users would get a very convenient, streamlined interface to work with.

Name of App:

SurgeHut

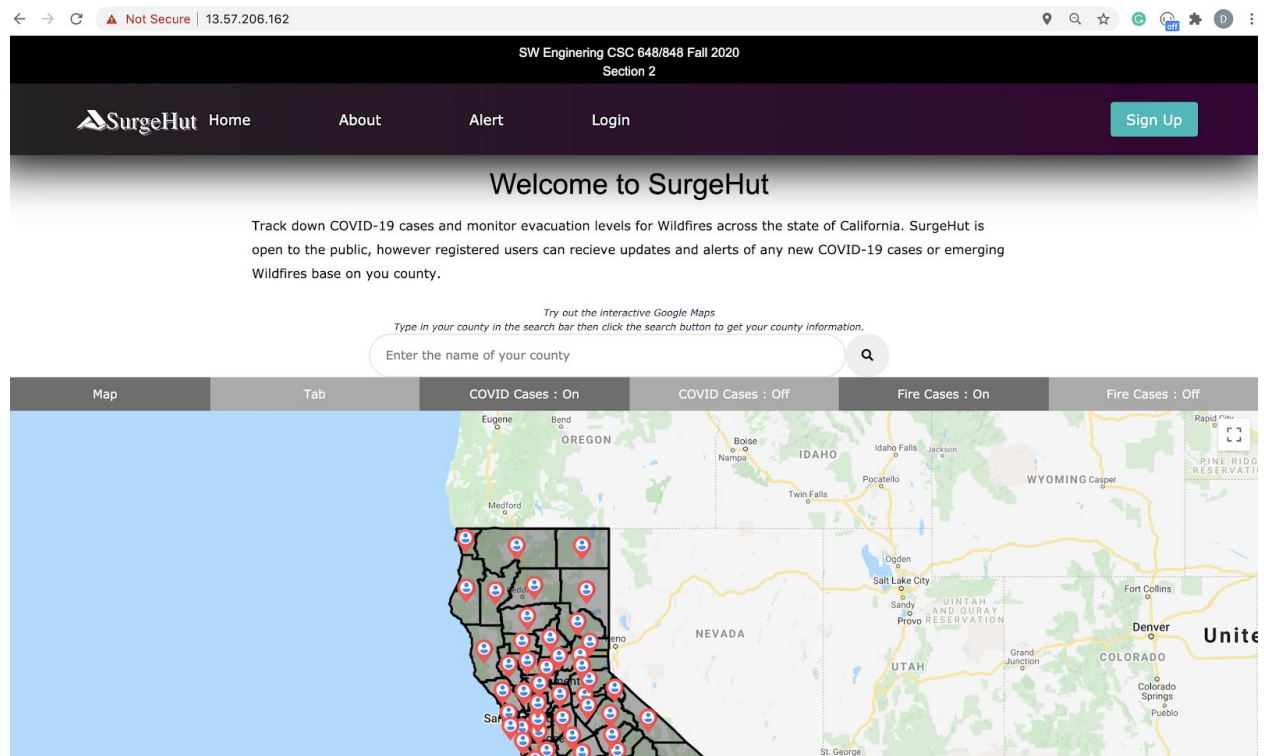
Functions:

- Google Map interaction (*unique feature*)
 - tracks covid cases and wildfire evacuation levels
 - Zooms in and out
 - Hold & drag map
- Google Analytics implementation that monitors traffic and location
- User registration and login.
- Dashboards for registered users, a public health official and fire director, and administration users
- Ability to navigate between pages.
- A notification system for alerts on COVID and wildfires for registered users and non-registered users.
- Built-Mailbox system for registered users to receive a message from admin

MILESTONE DOCUMENTS: M1-M4

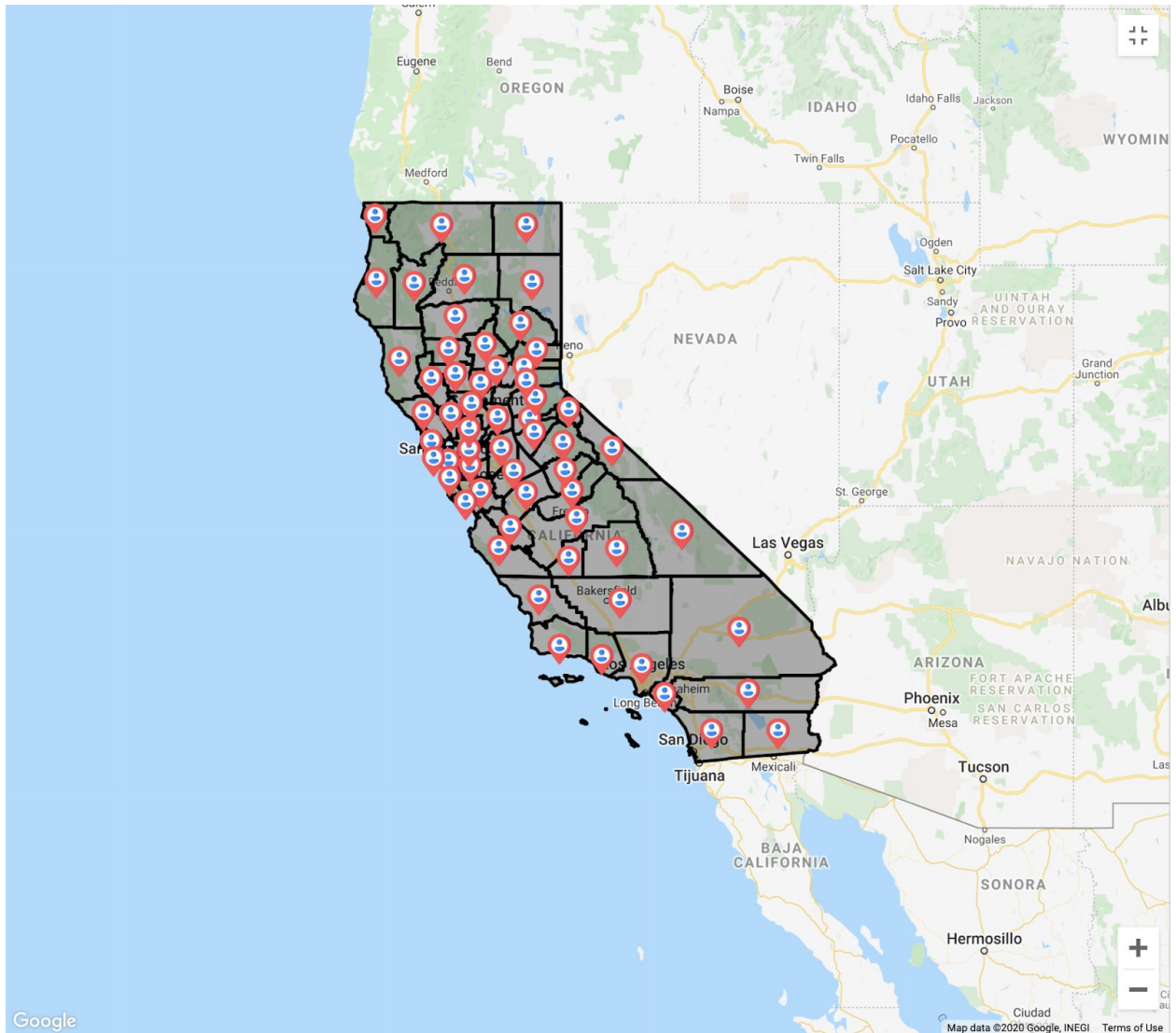
SCREENSHOT OF FINAL PRODUCT

Homepage



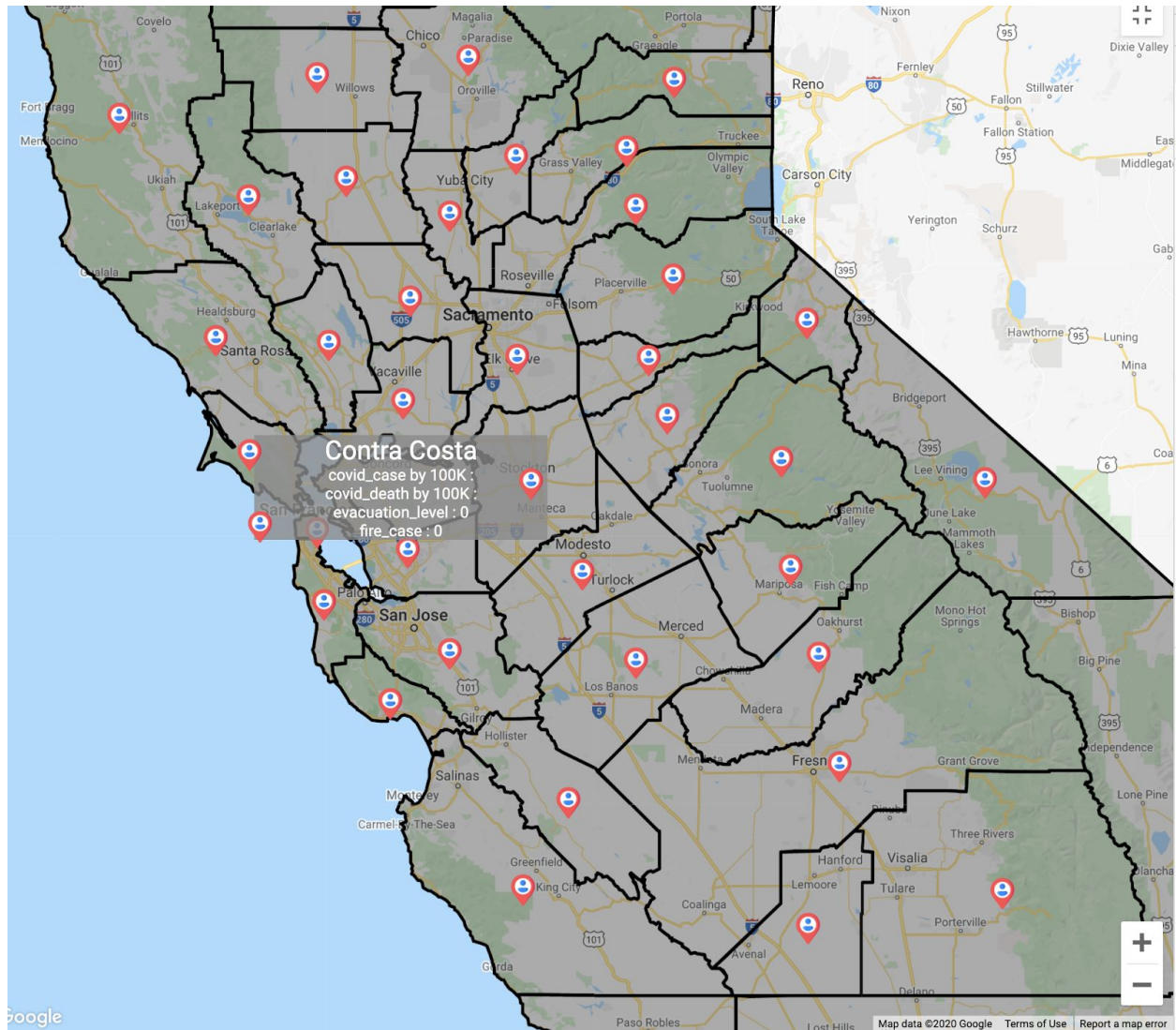
MILESTONE 5

Full-screen map



Zoom in & out


MILESTONE 5



The same page for registered users and health/fire directors

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Section 2

 [Home](#) [About](#) [Alert](#) [Login](#) [Sign Up](#)


Register your mail to receive alert from your county

Enter your mail

enter the name of your county

register

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Section 2

 [Home](#) [About](#) [Alert](#) [Login](#) [Sign Up](#)

Sign-Up to get alerts!

Username


Email

Password

Sign Up

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Section 2

 [Home](#) [About](#) [Alert](#) [Login](#) [Sign Up](#)

Login

Pseudo

Password

[Sign In](#)

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Health/fire directors enter metrics on the update page

The screenshot shows a web browser window with the address bar displaying '13.57.206.162/update'. The page title is 'SW Engineering CSC 648/848 Fall 2020 Section 2'. The navigation bar includes links for 'Home', 'About', 'Alert', 'Update', 'Mailbox', and 'Logout'. The main content area is titled 'Covid case form' and contains three input fields: the first contains '15', the second contains '3', and the third contains 'Contra Costa'. Below these fields is the text 'New entry of 15 case and 3 death in Contra Costa' and a 'Send' button. The second section is titled 'Fire case form' and contains two input fields: the first contains '2' and the second contains 'Humboldt'. Below these fields is the text 'New entry of 2 case in Humboldt' and a 'Send' button.

13.57.206.162/update

Not Secure | 13.57.206.162/update

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Section 2

Home About Alert Update Mailbox Logout

Covid case form

15

3

Contra Costa

New entry of 15 case and 3 death in Contra Costa

Send

Fire case form

2

Humboldt

New entry of 2 case in Humboldt

Send

Admin user approves update from checking the page

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https://13.57.206.162/checking

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Section 2

SurgeHut Home About Alert Update Checking Mailbox Logout

Covid case form

upload time : 2020-12-01T17:07:09.000

county : Contra Costa

Current number of case: 15

Current number of death: 3

Delete Validate

Fire case form

upload time : 2020-12-01T17:07:21.000

county : Humboldt


Current number of case: 2

Delete Validate

MailBox System - send out mail

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 Home About Alert Update Checking Mailbox Logout

mailboxsend email

Send a mail to a user

Enter username of the receiver

enter the subject of your mail

enter the message of your mail

send

Mailbox sent and incoming messages

13.57.206.162/mailbox

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HomeAboutAlertMailboxLogout

mailboxsent

send emailreceived

receiver : admin sender : diana

sent at 2020-12-01T14:32:48.000Z

object :
got it

ShowHide

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13.57.206.162/mailbox

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Section 2

Home About Alert Mailbox Logout

mailbox send email

sent received

receiver : diana sender : admin

sent at 2020-11-30T21:18:08.000Z

object : covid Show Hide

receiver : diana sender : admin

sent at 2020-12-01T14:16:52.000Z

object : new covid cases Show Hide

checkout this new data

SCREENSHOTS OF KEY DATABASE (1-2 PAGES)

New users added to database with different access-level

MySQL » db » team3 » Select: Profile

Select: Profile

Select data Show structure Alter table New item

Select Search Sort Limit 50 Text length 100 Action Select

SELECT * FROM `Profile` LIMIT 50 (0.000 s) Edit

<input type="checkbox"/> Modify	pseudo	mail	password	access_token	access_level
<input type="checkbox"/> edit	pierre	test@test	test	3i1p5djeigkw0g7r9ydg	2
<input type="checkbox"/> edit	diana	dbenavi.db@gmail.com	123456	kv4krcyej4pdy0n9mxnq	0
<input type="checkbox"/> edit	admin	admin@admin.com	1234	e84bvi9qugdfqr92hukj2n	2
<input type="checkbox"/> edit	director	director@director.com	1234	uwlnex3yhwsfm8pgde9lp	1

Whole result 4 rows Modify Save Selected (0) Edit Clone Delete Export (4)

Import

MILESTONE 5

MySQL » db » team3 » Select: County

Select: County

Select data Show structure Alter table New item

Select Search Sort Limit 50 Text length 100 Action Select

SELECT * FROM `County` LIMIT 50 (0.000 s) Edit

<input type="checkbox"/> Modify	id	name	latitude	longitude	covide_case	covide_death	fire_case	evacuation_level
<input type="checkbox"/> edit	1	Alameda	37.6505	-121.918	0	0	100	2
<input type="checkbox"/> edit	2	Alpine	38.5973	-119.821	30	20	30	0
<input type="checkbox"/> edit	3	Amador	38.4464	-120.651	0	0	0	0
<input type="checkbox"/> edit	4	Butte	39.6669	-121.601	0	0	0	0
<input type="checkbox"/> edit	5	Calaveras	38.2046	-120.554	0	0	0	14
<input type="checkbox"/> edit	6	Colusa	39.1776	-122.237	0	0	0	0
<input type="checkbox"/> edit	7	Contra Costa	37.9234	-121.951	0	0	0	0
<input type="checkbox"/> edit	8	Del Norte	41.7449	-123.958	0	0	0	0
<input type="checkbox"/> edit	9	El Dorado	38.7787	-120.525	0	0	0	0
<input type="checkbox"/> edit	10	Fresno	36.7582	-119.649	0	0	0	0
<input type="checkbox"/> edit	11	Glenn	39.5984	-122.392	0	0	0	0
<input type="checkbox"/> edit	12	Humboldt	40.705	-123.916	0	0	2	0
<input type="checkbox"/> edit	13	Imperial	33.0396	-115.365	0	0	0	0
<input type="checkbox"/> edit	14	Inyo	36.5111	-117.411	0	0	0	0
<input type="checkbox"/> edit	15	Kern	35.3428	-118.73	0	0	0	0
<input type="checkbox"/> edit	16	Kings	36.0754	-119.816	0	0	0	0
<input type="checkbox"/> edit	17	Lake	39.0996	-122.753	0	0	0	0
<input type="checkbox"/> edit	18	Lassen	40.6736	-120.594	0	0	0	0
<input type="checkbox"/> edit	19	Los Angeles	34.198	-118.261	0	0	0	0
<input type="checkbox"/> edit	20	Madera	37.218	-119.763	0	0	0	0
<input type="checkbox"/> edit	21	Marin	38.0552	-122.749	0	0	0	0
<input type="checkbox"/> edit	22	Mariposa	37.5815	-119.906	0	0	0	0
<input type="checkbox"/> edit	23	Mendocino	39.4336	-123.432	0	0	0	0
<input type="checkbox"/> edit	24	Merced	37.1919	-120.718	0	0	0	0
<input type="checkbox"/> edit	25	Modoc	41.5898	-120.725	0	0	0	0
<input type="checkbox"/> edit	26	Mono	37.939	-118.887	0	0	0	0
<input type="checkbox"/> edit	27	Monterey	36.2398	-121.309	0	0	0	0
<input type="checkbox"/> edit	28	Plumas	38.5065	-122.331	0	0	0	0

Page 1 2 Whole result ☐ 58 rows Modify Save Selected (0) Edit Clone Delete Export (58)

MILESTONE 5

MySQL » db » team3 » Select: Alert

Select: Alert

Select data Show structure Alter table New item

SELECT * FROM `Alert` LIMIT 50 (0.000 s) Edit

<input type="checkbox"/> Modify	mail	county
<input type="checkbox"/> edit		
<input type="checkbox"/> edit	abc@abc.com	Calaveras
<input type="checkbox"/> edit	dbenavi.db@gmail.com	Calaveras
<input type="checkbox"/> edit	dbenavi.db@gmail.com	San Francisco
<input type="checkbox"/> edit	diana	San Francisco
<input type="checkbox"/> edit	docmurloc@gmail.com	Alameda
<input type="checkbox"/> edit	docmurloc@gmail.com	paris
<input type="checkbox"/> edit	pierre.ant7@hotmail.com	Alameda

☐ 8 rows

Import

MySQL » db » team3 » Select: Covid

Select: Covid

Select data Show structure Alter table New item

SELECT * FROM `Covid` LIMIT 50 (0.000 s) Edit

<input type="checkbox"/> Modify	upload_time	nb_case	county	validate	nb_death
<input type="checkbox"/> edit	2020-11-09 23:07:24	9	MDR	1	NULL
<input type="checkbox"/> edit	2020-11-10 14:59:54	10	Alpine	1	NULL
<input type="checkbox"/> edit	2020-11-15 17:09:21	20	Alpine	1	30
<input type="checkbox"/> edit	2020-11-15 17:12:31	30	Alpine	1	20
<input type="checkbox"/> edit	2020-12-01 11:08:11	12	San Francisco	1	3
<input type="checkbox"/> edit	2020-12-01 14:07:11	10	San Benito	1	4
<input type="checkbox"/> edit	2020-12-01 14:14:27	13	Alpine	1	2
<input type="checkbox"/> edit	2020-12-01 17:07:09	15	Contra Costa	1	3

☐ 8 rows

Import

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MySQL » db » team3 » Select: Fire

Select: Fire

Select data Show structure Alter table New item

50

100

Select

SELECT * FROM `Fire` LIMIT 50 (0.000 s) Edit

<input type="checkbox"/> Modify	upload_time	county	nb_case	validate
<input type="checkbox"/> edit	2020-11-09 23:09:22	test	9	1
<input type="checkbox"/> edit	2020-11-10 23:51:45	Alpine	10	1
<input type="checkbox"/> edit	2020-11-15 17:13:05	Alameda	100	1
<input type="checkbox"/> edit	2020-12-01 11:08:26	San Francisco	2	1
<input type="checkbox"/> edit	2020-12-01 11:09:57	San Francisco	100	1
<input type="checkbox"/> edit	2020-12-01 14:07:30	San Benito	2	1
<input type="checkbox"/> edit	2020-12-01 14:14:36	Alpine	30	1

☐ 7 rows

Save

Edit

Clone

Delete

Import

MySQL » db » team3 » Select: Mailbox

Select: Mailbox

Select data Show structure Alter table New item

50

100

Select

SELECT * FROM `Mailbox` LIMIT 50 (0.000 s) Edit

<input type="checkbox"/> Modify	upload_time	sender	receiver	object	message
<input type="checkbox"/> edit	2020-11-09 23:53:44	pierre	antoine	test mail	test the mail in the data base
<input type="checkbox"/> edit	2020-11-11 00:51:41	pierre	test	test again	this is a test
<input type="checkbox"/> edit	2020-11-30 21:18:08	admin	diana	covid	new cases
<input type="checkbox"/> edit	2020-12-01 14:16:52	admin	diana	new covid cases	checkout this new data
<input type="checkbox"/> edit	2020-12-01 14:32:48	diana	admin	got it	message received

☐ 5 rows

Save

Edit

Clone

Delete

Import

Plug-ins

Google Analytics

Google Analytics was implemented to follow user experience by tracking user page interaction while navigating through the site. Once the tracking code is implemented in the SurgeHut app, we are able to see real-time reports on whichever page we wish to track in the Google Analytics console. To collect data about user behavior we track the user's location based on the user's IP address. This will help us track the county they live in and provide information to the user base on their location.

Google Maps

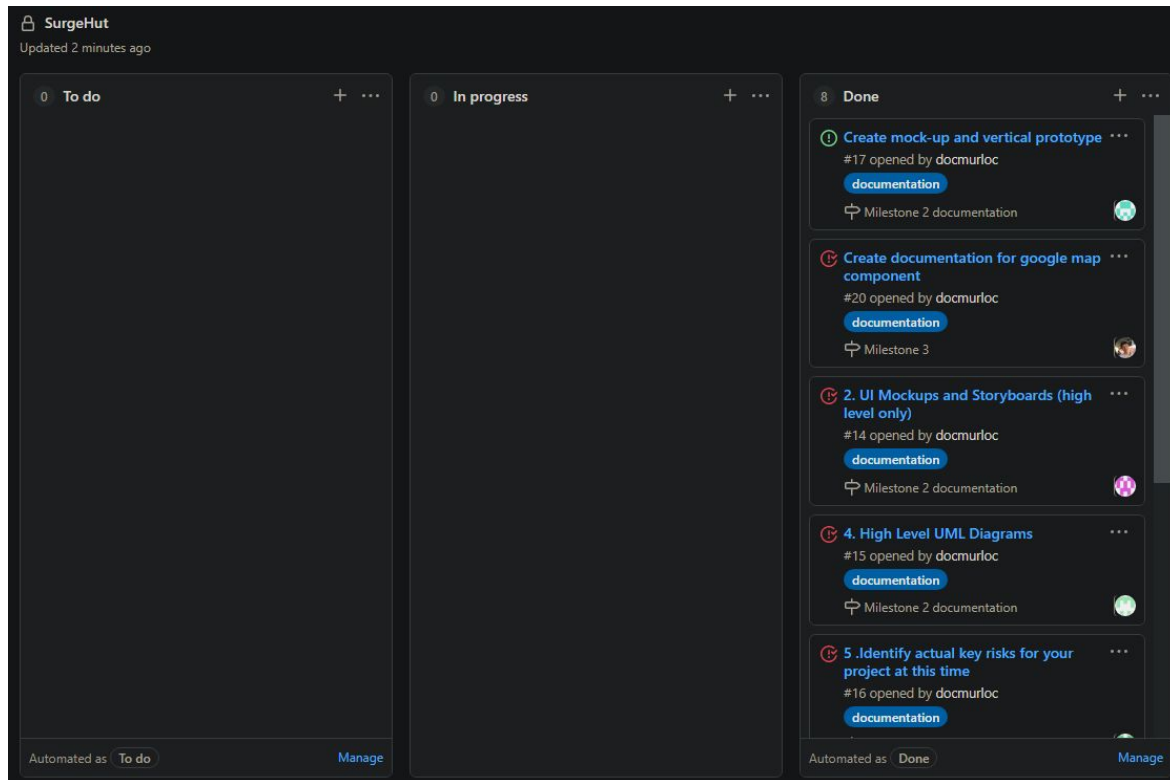
Google Maps is integrated into SurgeHut by implementing an API Javascript loader to track all 58 counties in the state of California. The SDK of the API allows the developer to personalize the map display data and to make it compatible with desktops and mobile devices. The user will be able to zoom in and out, hold and drag the map around, and the option of using full-screen. Markers are also implemented to pinpoint the user's location. Once the user hovers over the marker they will be able to see COVID-19 and Wildfire data.

Nodemailer for MailBox System

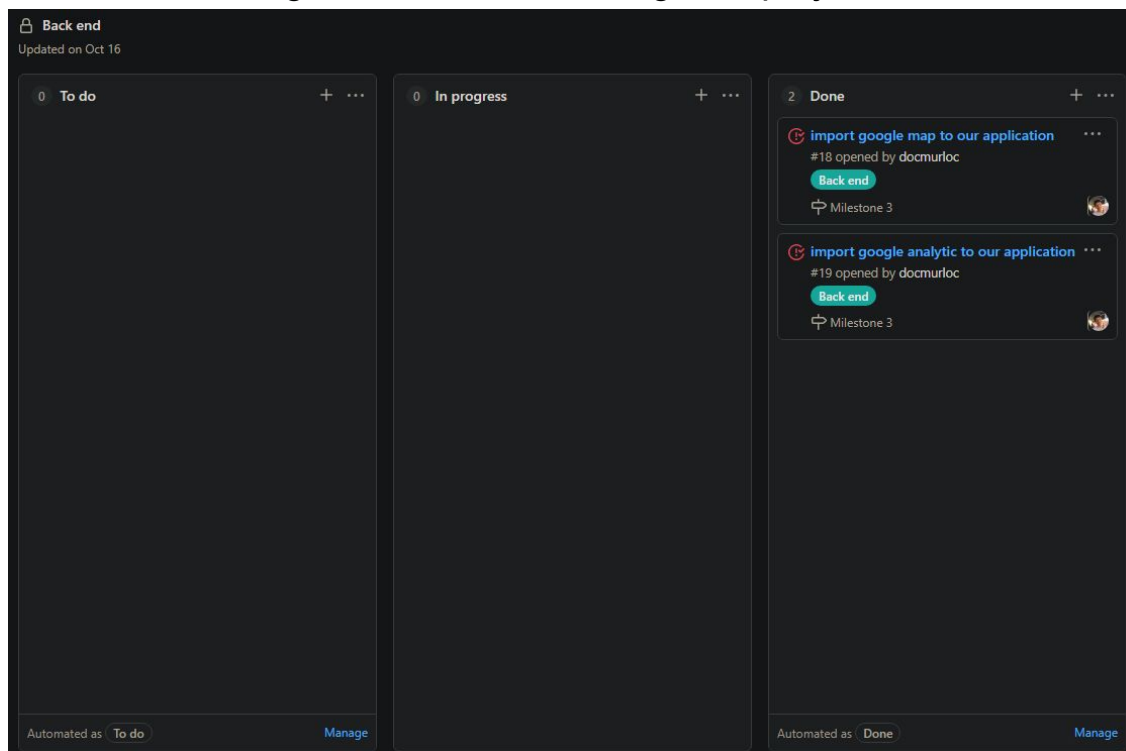
Nodemailer is also implemented in the web app which allows users to send and receive messages through the SurgeHut app. This is implemented by a transporter object that is configured for the user, so they can send a message or receive a message they used to register.

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SCREENSHOT OF TASK MANAGEMENT SYSTEM



Task management for overall SurgeHut project

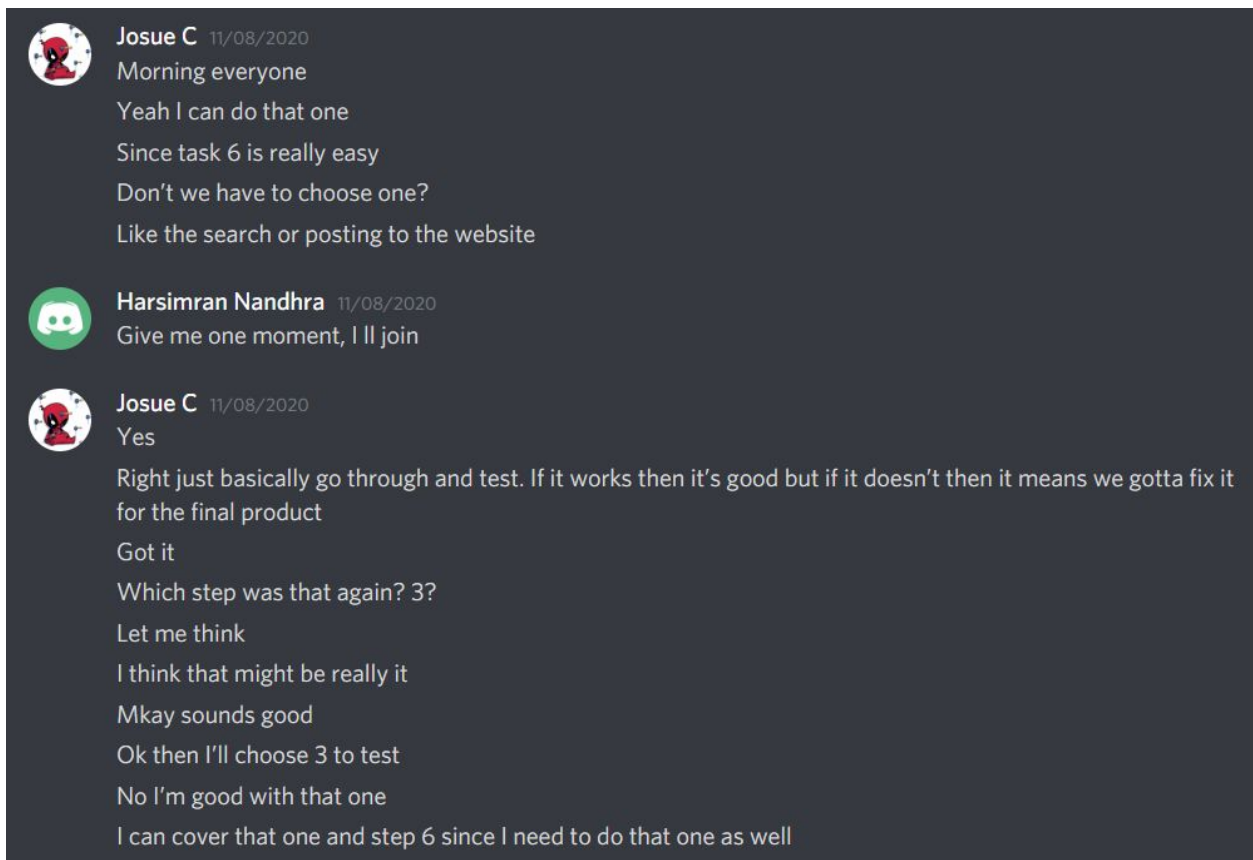


Tasks management for backend issues

TEAM MEMBER CONTRIBUTIONS

The majority of our communication on this project was done through Discord, where we have a channel that we can use to text chat to each other as well as voice channels where we can speak to one another. Below are a few screenshots of tasks or bugs that we were tasked with during our project.

A large majority of our code was done through Diana or Pierre, who had the most experience with our coding language and database. The rest of the team assisted with researching solutions for bugs in helping create and complete our Milestones. We did our best to make sure that the team was aware of the code that was created and used in the application as well as tried to make sure everyone was able to add content either to the front end or back end.



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Diana Benavides 11/07/2020

@team 3 hey guys for part 4 i think someone has to send a piece of code of 2 pages max, so i can review it via-email. the code must be a feature we used for usability testing. so maybe the code for searching??

4) Code Review:

- By this time you should have chosen a coding style. In the report say what coding style you chose.
- Choose the code (substantial portion of it) related to the feature you used for QA and usability test. You need to submit an example of the code under review (or part of it - 2 pages or so MAX) for this function to be peer reviewed, and document this as follows:
 - One team member should submit code to other team member(s) for peer review.
 - Peer review should be performed by other group member(s) (1 review is OK).

- Peer review is to be done by e-mail and comments are to be included in the code
- Submit the e-mail containing or screen shot of the peer review and commented code and e-mail communication related to this in your Milestone 4 document

Important: It is critical that code reviews are friendly and helpful, intended to help and education, and not to criticize. It is strongly suggested that you use peer review in the development of the whole system. Reviewers should also check for at least minimal code header and in-line comments and flag this as a problem if this is not adequate

Note: peer review must include checking for basic header and in-line comments

@Pierre Antoine i think you might have to send me the code and i can review it via-email



Pierre Antoine 11/29/2020

@Diana Benavides diana the bug is fix for the mail form

to give the acces right for a new user, you need to change their access level to 3 in the user database

I will be here tomorrow for the meeting

if you find another bug you can write it in the github issues. I will get a notification by mail

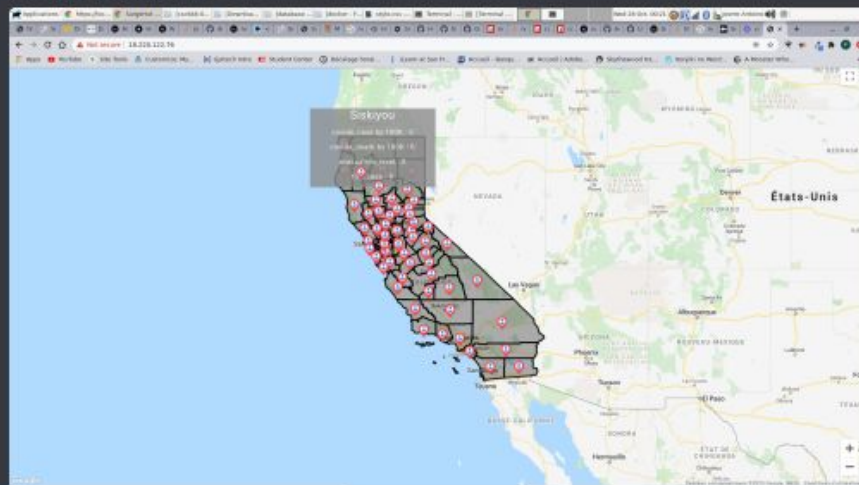


Kevin Chen 10/27/2020


@Pierre Antoine I need just a screenshot of the maps for the prototype



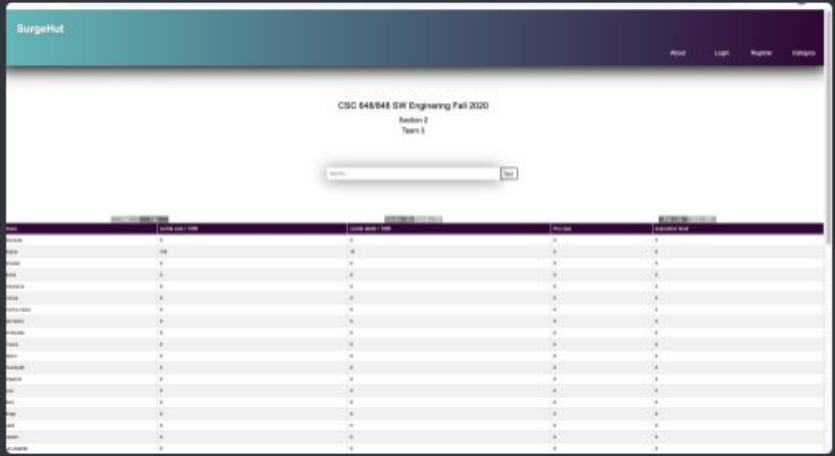
Pierre Antoine 10/27/2020






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 **Diana Benavides** 10/27/2020
can you also get screenshots of the tables

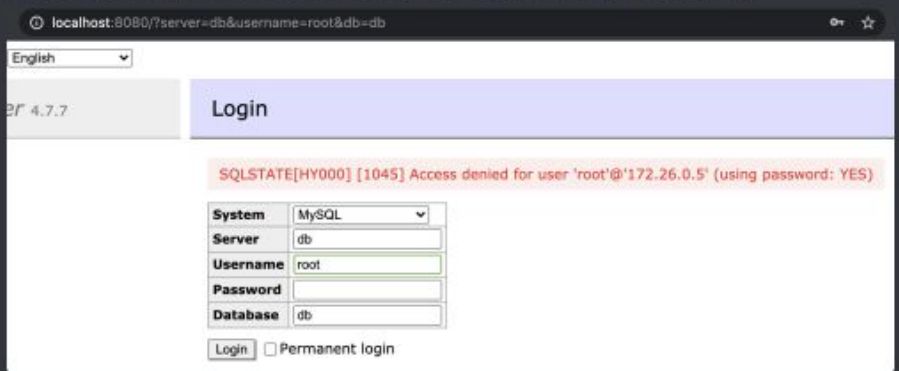
6:16 PM @Kevin Chen can you add this to the pdf please




 **Kevin Chen** 10/27/2020
sure

 **CSC648HorizontalPrototype.pdf**
294.78 KB 

 **Diana Benavides** 10/14/2020
not able to login under root. which username should i use? do i have to be connected to the aws server or can i use localhost?



 **Harsimran Nandhra** 10/14/2020
@Diana Benavides i can try to do category drop down

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Pierre Antoine 10/13/2020

docker-compose up --build

docker-compose down

docker-compose down --volume



Diana Benavides 10/13/2020

dbenavi.db@gmail.com



Pierre Antoine 10/13/2020

<https://github.com/CSC-648-SFSU/csc648-02-fa20-team03/blob/master/docs/docker/mysql/connect.md>

https://github.com/CSC-648-SFSU/csc648-02-fa20-team03/blob/master/docs/mysql/Import_Export.md



1



Harsimran Nandhra 10/13/2020

[@Diana Benavides](#) i m available on friday n sunday. Let me knw we can work on it together



Diana Benavides 10/13/2020

ok i will let you

POST ANALYSIS

The main challenges the group encountered during the development process were working around scheduling conflicts and figuring out documentation for the more unfamiliar parts of the code. Scheduling conflicts were often caused by fairly standard reasons, such as different class times, personal schedules and medical emergencies. Another reason for scheduling conflicts was due to time zone differences. Due to the nature of no longer having in person classes, group members were in different time zones. To alleviate this issue, we used a multitude of solutions. The original solution was a document in which each member wrote down their schedules; the intersection of available times was used to schedule the initial set of meetings. Later on, we moved to using Discord channels to schedule meetings and would have meetings without the full group, and fill in what we covered with the members who were unable to make them. A way we could have dealt with this more effectively was to be more willing to have meetings without the full group. While text communication is less effective than meetings, it ended up being sufficient to fill in the gaps from being unable to attend meetings, and having more meetings would have made the development process more straightforward. The second set of challenges was documentation for unfamiliar code. SurgeHut used a significant amount of Google API tools in it: Google Analytics, Google Maps and Google developer sites. Pierre was already very experienced with using these, but the rest of the group was initially very unfamiliar with most if not all of these. To deal with this issue we used the documentation and resources provided by Google. This problem would have used less time if we were more clear with our skills with various frameworks. Going into the project, we only had a cursory understanding of

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each other's familiarity with the frameworks, and if this was more clear then a significant time could have been saved.