Installation
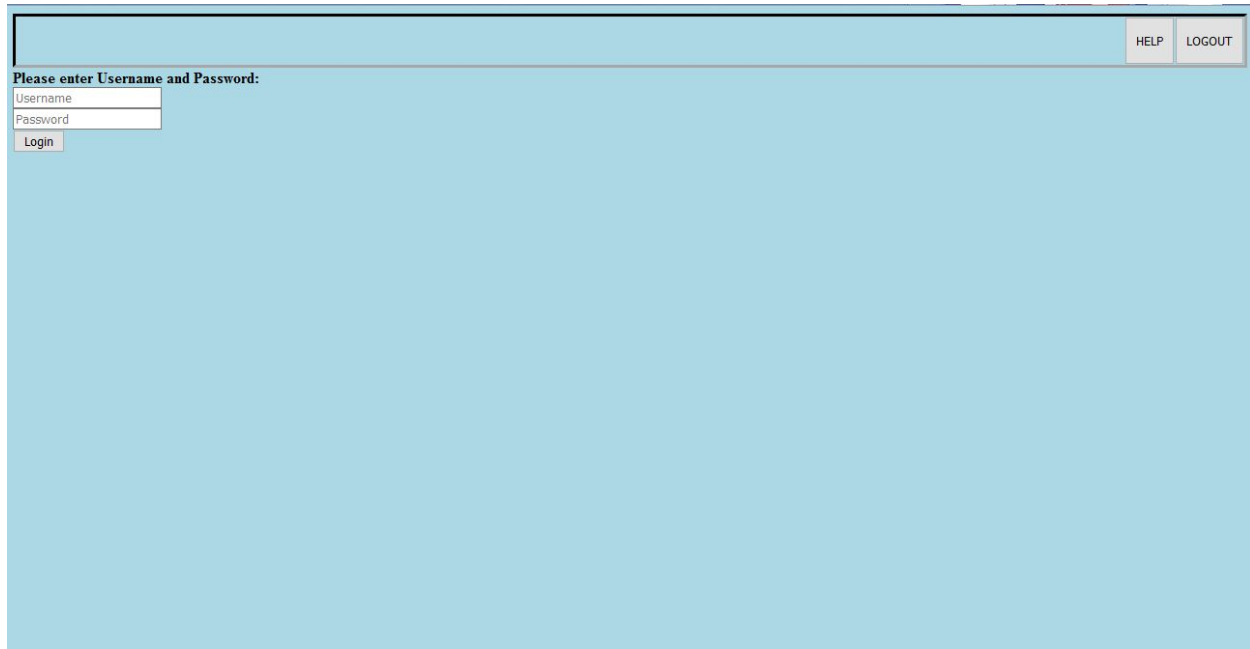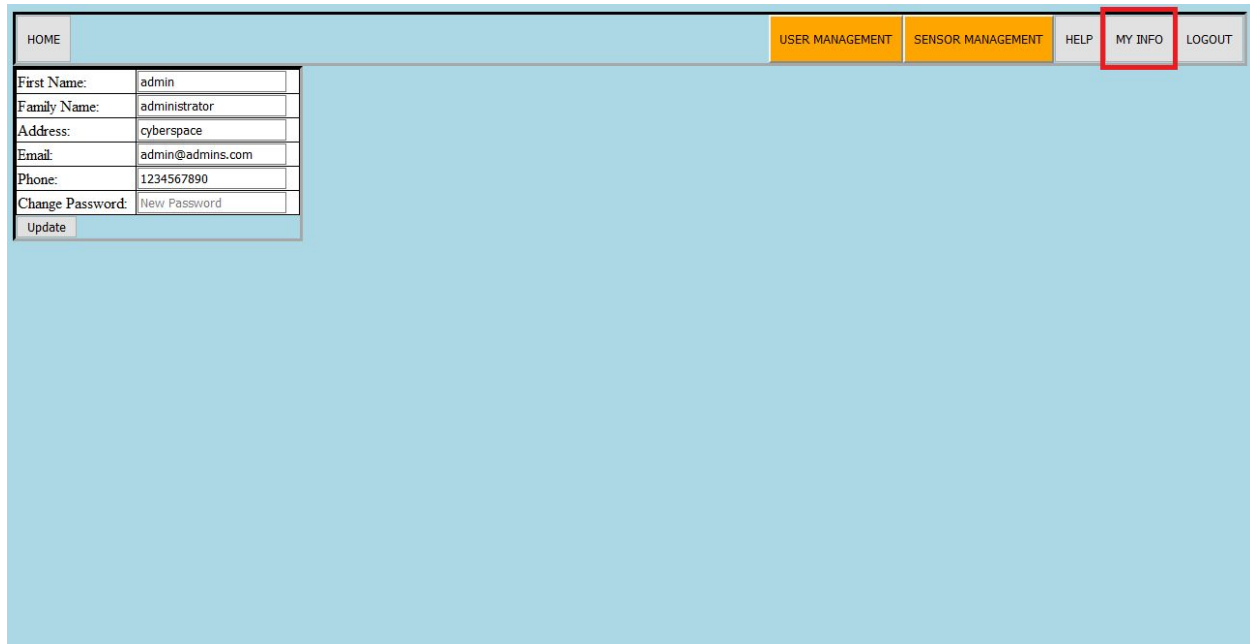
1) Extract zip into your server's directory. (Ex. in Catalina/webapps)
2) Run makefile (in a command line, run ./Makefile.sh) to generate Admin Account and create tables
3) Log in using "admin", "admin".

4) Go to the "My Info" tab and change the admin password.

Login Module

1) When you open the site, you will be taken to the login page.
2) Enter your assigned username and password, and press login.
3) Be aware that your password is secured using md5 salt encryption.

4) If you wish to change your personal information or password, click on "My Info"
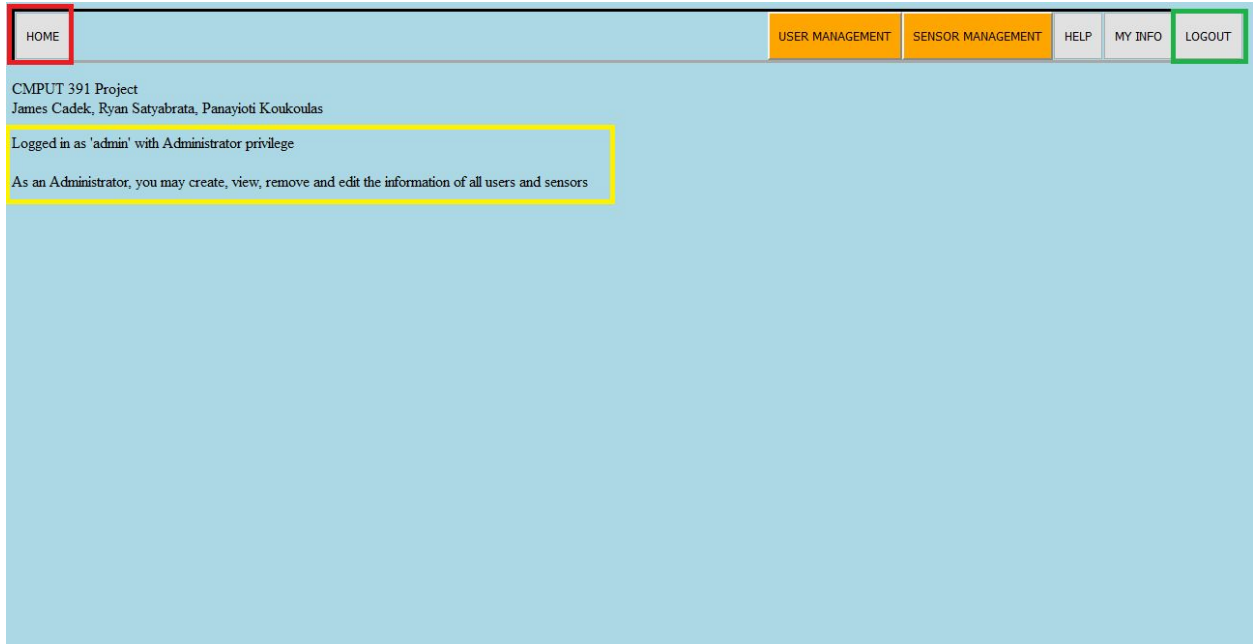5) You will be prompted to edit any of your information. When you are satisfied with the updates, press "Update"

HOME | USER MANAGEMENT | SENSOR MANAGEMENT | HELP | MY INFO | LOGOUT

CMPUT 391 Project
James Cadek, Ryan Satyabrata, Panayioti Koukoulas

Logged in as 'admin' with Administrator privilege

As an Administrator, you may create, view, remove and edit the information of all users and sensors

6) The landing page shows information on your username and role (shown in yellow). If you ever need to return to this page, press 'Home (shown in red).

7) At the end of your session, press "Logout" (in Green) to logout

Sensor Management

1) If you have "Admin" privilege, you should see an orange button called "Sensor Management" (shown in

red)
2) In this view you should see a table containing all sensors., as in the above screenshot
3) If you wish to delete any sensor, check the "Remove Sensor" column and press "Remove Checked Sensor". You may delete them one at a time (Shown in the green box)
4) If you wish to add a sensor, fill out the "Create Sensor" form on the left hand side of the screen. (Shown in the yellow box)

User Management

1) If you have "Admin" privilege, you should see an orange button called "User Management" (shown in red)

2) You will see a large table containing every user in the system.
3) If you wish to create a new user and person, use the "Create User". This will generate a new person and a new user record (shown in Purple)
4) To edit an existing user or person, check a name in the "Modify User" column, and then press the green "Modify user" button. (shown in green)

5) This will allow you to change any of their information, or their role. If you update their pid, this will change in others users associated to the same Person.

6) To add a user to an existing person record, check "Add associated User" next to the account with the same user ID, and then press the yellow "Add Associated User" button. (shown in yellow)

7) You will be able to add a new account associated to the first by ID.
8) To remove a User, check "Remove User" and then press the "Remove User" button. (shown in blue)

Subscribe Module

1) If you have "Scientist" privilege, you should see an green button called "Sensor Subscriptions" (shown in red)

2) You should see two tables. The top shows sensors you are currently subscribed to, and the bottom shows other sensors. When you are subscribed to a sensor, you can search its data and perform data analysis on it.
3) To add a new subscription, check off the row in the bottom table you want to subscribe to, and press "Subscribe to new Sensor". (shown in green)
4) To remove a subscription, check off a row in the top table and press "Unsubscribe to checked Sensor" (shown in Yellow)

Search Module

1) If you have "Scientist" privilege, you should see an green button called "Search Sensors" (shown in red)

| HOME | | ANALYZE DATA | SENSOR SUBSCRIPTIONS | SEARCH SENSORS | HELP | MY INFO | LOGOUT |

Sensor Search:

Enter search parameters:

Sensor Type:	Sensor Type
Sensor Location:	Sensor Location
Keywords (exact string):	Keywords
Data Since: (dd/mm/yyyy hh:mm:ss)	11/11/1900 11:11:11
Data Up Until: (dd/mm/yyyy hh:mm:ss)	11/11/2088 11:11:11

Search!

2) Enter your search specifications. If you do not enter a time period, a default period containing all data will be presumed.
3) Press "Search"

4) You will be taken to a page containing all of the output information for you search. From here, you can download the scalar data as a batch, or you can download individual images and audio.

ANALYZE DATA | SENSOR SUBSCRIPTIONS | SEARCH SENSORS | HELP | MY INFO | LOGOUT

Search results where: contains data recorded before 11/11/2016 11:11:11', contains data recorded after 11/11/2014 11:11:11',

SCALAR RESULTS

DATA ID	SENSOR ID	VALUE	DATE CREATED
2296	12	30.5	2015-01-01
2299	12	41	2015-01-04
2302	12	26.1	2015-01-07
3017	21	17	2016-01-02
3023	21	23	2016-01-05
4026	21	26	2016-05-13
5056	21	56	2016-01-29
5118	12	41	2015-01-04
2053	21	53	2015-12-29
2300	12	20	2015-01-05
3016	21	16	2016-01-01
3021	21	21	2016-01-03
4027	21	27	2016-02-13
4042	21	42	2016-03-13
5112	21	12	2016-02-01
5120	12	35.23	2015-01-06
2298	12	30	2015-01-03
2303	12	30.7	2015-01-08
2013	21	13	2015-12-01
2014	21	14	2015-12-02
5116	12	17.2	2015-01-02
2051	21	51	2015-12-27
3122	21	22	2016-01-04
3031	21	31	2016-01-10
5121	12	26.1	2015-01-07

Click here to download this Scalar Data batch.

AUDIO RESULTS

DATA ID	SENSOR ID	LENGTH	DESCRIPTION	DOWNLOAD	DATE CREATED
1222	22	1	A meowing cat.	Download	2014-12-22
1223	22	1	KFC before the Colonel.	Download	2015-10-13
1224	22	2	Purring Cat	Download	2015-10-13

IMAGES RESULTS

DATA ID	SENSOR ID	DESCRIPTION	THUMBNAIL	DOWNLOAD	DATE CREATED
255	22	Interacting foxes.		Download	2015-05-22
254	22	No bugs plz!		Download	2015-05-22

5) When you click download on an image, you should see the following:

Click here to download the audio file.
This tab will automatically close 3 seconds after clicking the download link.

[Close.]

6) If you click download on an image, you will see a similar screen:

Click here to download the image.
This tab will automatically close 3 seconds after clicking the download link.

[Close.]

99 little bugs in the code.
99 little bugs in the code.
Take one down, patch it around.

127 little bugs in the code...

Data Analysis

1) If you have "Scientist" privilege, you should see an green button called "Analyze Data (shown in red)

Sensor ID	Location	Sensor Type	Description	Analyze Sensor
12	Trench Interior, Mid	a	An audio recorder placed to listen for abnormal sounds that may occur inside the trench.	○
21	Trench Entrance, Mid	s	Provdes scalar data of the area around the entrance to the trench.	○
22	Trench Interior, Mid	s	Provdes scalar data of the area around the interior of the trench.	○
2	Aerial Observation	i	Nothing of note.	○
23	ASd	a	asd	○
1	Trench Entrance, Mid	i	A visual sensor placed to watch for any motion of any creatures or objects that attempt to leave or enter the trench.	⦿

My Subscriptions

HOME   ANALYZE DATA   SENSOR SUBSCRIPTIONS   SEARCH SENSORS   HELP   MY INFO   LOGOUT

2) You will see a table containing all of the sensors you are subscribed to.
3) Check off the box next to the sensor you want to analyze, and press "Analyze Sensor" (shown in yellow)
4) You will see a table appear containing the all-time data for that sensor. If you wish to get more specific data, you may use the series of drop down menus above the table (shown in red). Because of the way the data is structured, you may not select a value unless the higher level is selected (eg. you can't pick a quarter until you selected a year".

HOME   ANALYZE DATA   SENSOR SUBSCRIPTIONS   SEARCH SENSORS   HELP   MY INFO   LOGOUT

Viewing Sensor Data for Sensor 22, Showing records for: all of history

Ignore Year ∨ | Ignore Quarter ∨ | Ignore Month ∨ | Ignore Week ∨ | Ignore Day ∨ | Update Analysis

Filter From	Subset	AVG	MIN	MAX
All Data	2051	6.875	1.0	15.0
All Data	2052	25.666666	10.0	50.0
All Data	2053	25.0	25.0	25.0
All Data	2054	10.0	10.0	10.0
All Data	2055	5.0	5.0	5.0
All Data	2056	35.0	35.0	35.0
All Data	0	15.777778	1.0	50.0

5) To update the view, press the "Update Analysis" button. (shown in yellow)
6) At the bottom of every view is a value containing the Total for all rows.

Upload Module

1) If you have "Data Curator" privilege, you should see a yellow button called "Upload data" (shown in red)

2) You will be prompted with a form that allows you to upload JPEG, WAV or CSV files. (shown in green)
3) Enter the required information for the type of your choice, and press upload. (shown in purple)