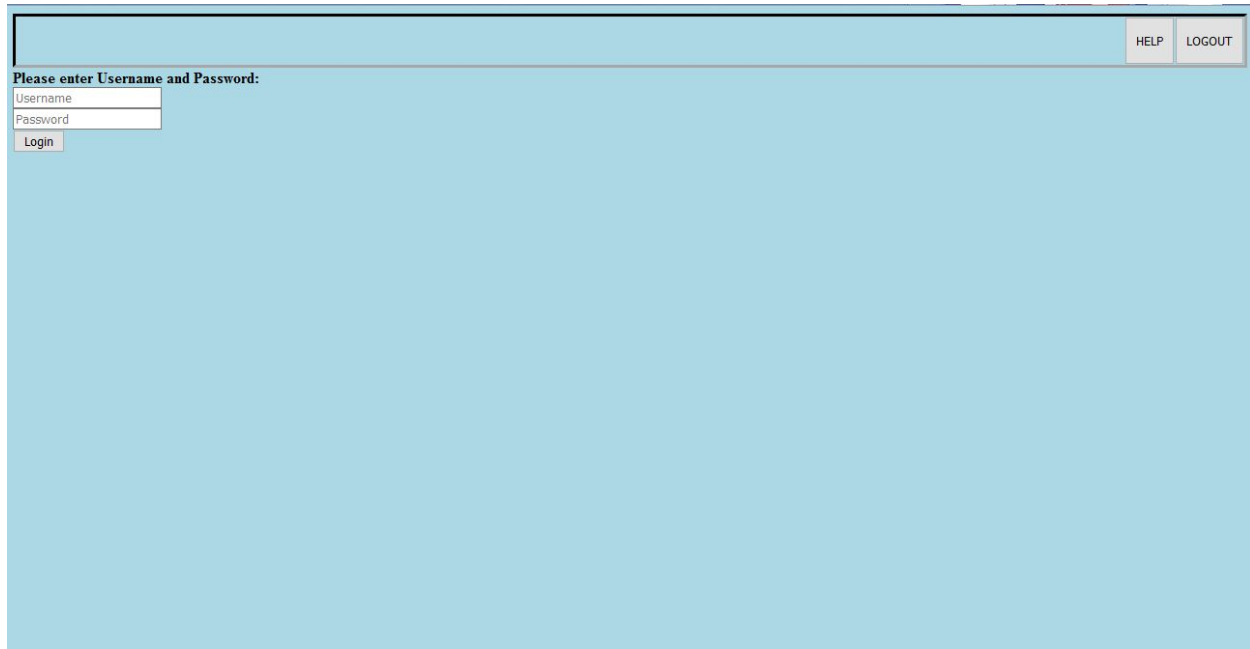


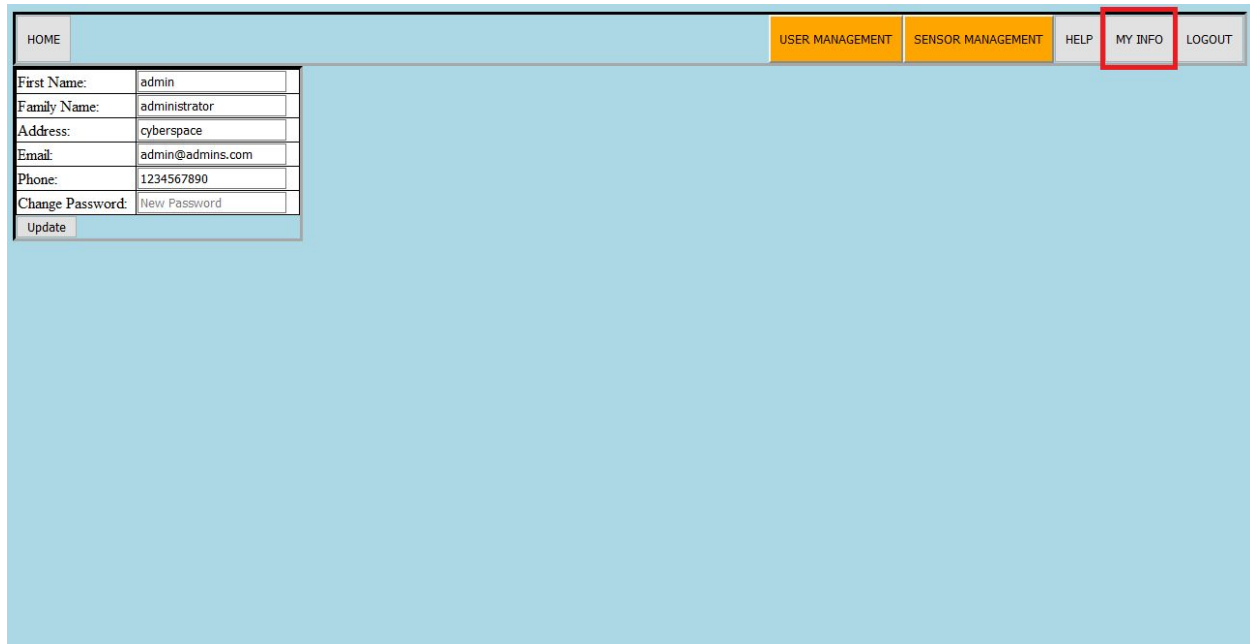
Installation

- 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”.



A screenshot of a web application's login page. The page has a light blue background. In the top right corner, there are two buttons: "HELP" and "LOGOUT". On the left side, there is a form titled "Please enter Username and Password:". The form contains two input fields: "Username" and "Password". Below these fields is a "Login" button.

- 4) Go to the “My Info” tab and change the admin password.




A screenshot of a web application's "My Info" page. The page has a light blue background. At the top, there is a navigation bar with several tabs: "HOME", "USER MANAGEMENT", "SENSOR MANAGEMENT", "HELP", "MY INFO", and "LOGOUT". The "MY INFO" tab is highlighted with a red border. Below the navigation bar, there is a form with the following fields: "First Name:" (admin), "Family Name:" (administrator), "Address:" (cyberspace), "Email:" (admin@admins.com), "Phone:" (1234567890), and "Change Password:" (New Password). Below these fields is an "Update" button.

Login Module



The screenshot shows a login page with a light blue background. At the top right, there are two buttons: "HELP" and "LOGOUT". Below these, on the left, is a form titled "Please enter Username and Password:". The form contains two input fields: "Username" and "Password". Below the "Password" field is a "Login" button.

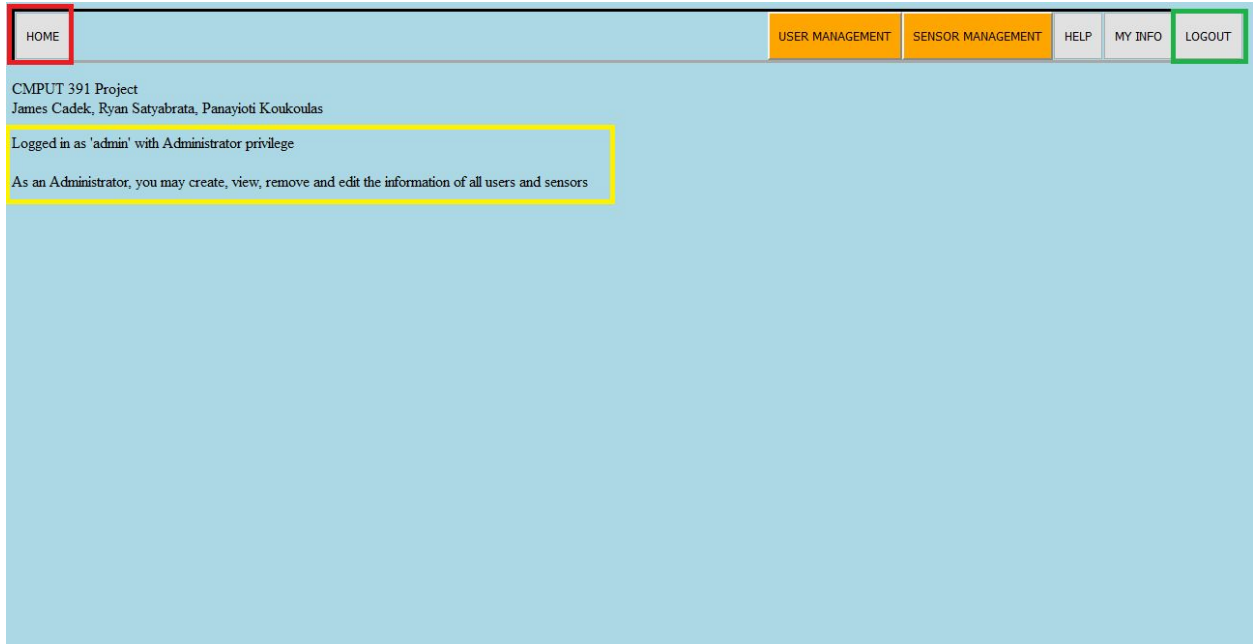
- 1) When you open the site, you will be taken to the login page.
- 2) Enter your assigned username and password, and press login.
- 3) Be aware that your password is secured using md5 salt encryption.



The screenshot shows a user profile page with a light blue background. At the top, there is a navigation bar with buttons: "HOME", "USER MANAGEMENT", "SENSOR MANAGEMENT", "HELP", "MY INFO" (highlighted with a red box), and "LOGOUT". Below the navigation bar, on the left, is a form for editing user information. The form has the following fields:

First Name:	admin
Family Name:	administrator
Address:	cyberspace
Email:	admin@admins.com
Phone:	1234567890
Change Password:	New Password
<input type="button" value="Update"/>	

- 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"



- 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

SENSOR ID	LOCATION	TYPE	DESCRIPTION	
12	Trench Interior, Mid	a	An audio recorder placed to listen for abnormal sounds that may occur inside the trench.	<input type="radio"/>
21	Trench Entrance, Mid	s	Provides scalar data of the area around the entrance to the trench.	<input type="radio"/>
22	Trench Interior, Mid	s	Provides scalar data of the area around the interior of the trench.	<input type="radio"/>
2	Aerial Observation	i	Nothing of note.	<input type="radio"/>
23	ASd	a	asd	<input type="radio"/>
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.	<input checked="" type="radio"/>

SENSOR ID LOCATION TYPE DESCRIPTION

Remove Checked Sensor

Create new sensor:

24

Location

Type

Description

Create!

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)

The screenshot shows the 'User Management' section of a web application. On the left is a 'Create new user' form with fields for Username, First Name, Family Name, Address, Email, Phone, Person ID (10002), Password (New Password), and User's role (Scientist). A 'Create!' button is at the bottom. On the right is a table of existing users.

Username	User ID	Role	Modify User	Add Associated User	Remove User
admin	1	Administrator	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Discord	1213	Data Curator	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dr.Nope	1213	Scientist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Figgler	4251	Scientist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Harmony	4251	Scientist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Crake	7777	Scientist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Order	7777	Administrator	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dumbro	9821	Data Curator	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Privateer	9821	Data Curator	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Platyporp	9822	Scientist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Placeholder	10000	Scientist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
cat	10001	Scientist	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>

- 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)

The screenshot shows the 'Modify user' form in the 'User Management' section. The form has fields for Username (cat), First Name (cat), Family Name (cat), Address (cat), Email (cat), Phone (cat), Person ID (10001), Password (***), New Role (s), and User's role (Keep Previous Role). An 'Update' button is at the bottom right of the form.

- 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)

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

Modify user:

Username:	<input type="text" value="Username"/>
Person ID:	<input type="text" value="10001"/>
New Role:	<input type="text" value="s"/>
Password:	<input type="text" value="New Password"/>
User's role is:	
Scientist	<input type="button" value="Update"/>

- 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 a green button called “Sensor Subscriptions” (shown in red)

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

My Subscriptions

Sensor ID	Location	Sensor Type	Description
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	Provides scalar data of the area around the entrance to the trench.
22	Trench Interior, Mid	s	Provides scalar data of the area around the interior of the trench.
2	Aerial Observation	i	Nothing of note.
23	ASd	a	asd

Unsubscribe to checked Sensors

Other Sensors

Sensor ID	Location	Sensor Type	Description
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.

Subscribe to new Sensors

- 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)

The screenshot displays the 'Search Module' interface. At the top, there is a navigation bar with several buttons: 'HOME', 'ANALYZE DATA', 'SENSOR SUBSCRIPTIONS', 'SEARCH SENSORS' (highlighted with a red border), 'HELP', 'MY INFO', and 'LOGOUT'. Below the navigation bar, the 'Sensor Search:' section is visible. It includes a form titled 'Enter search parameters:' with the following fields:

Sensor Type:	<input type="text"/>
Sensor Location:	<input type="text"/>
Keywords (exact string):	<input type="text"/>
Data Since: (dd/mm/yyyy hh:mm:ss)	<input type="text" value="11/11/1900 11:11:11"/>
Data Up Until: (dd/mm/yyyy hh:mm:ss)	<input type="text" value="11/11/2088 11:11:11"/>

Below the form is a 'Search!' button.

- 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.

[HOME](#)[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 a 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.	<input type="radio"/>
21	Trench Entrance, Mid	s	Provides scalar data of the area around the entrance to the trench.	<input type="radio"/>
22	Trench Interior, Mid	s	Provides scalar data of the area around the interior of the trench.	<input type="radio"/>
2	Aerial Observation	i	Nothing of note.	<input type="radio"/>
23	ASd	a	asd	<input type="radio"/>
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.	<input checked="" type="radio"/>

- 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”.

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)

HOME **UPLOAD DATA** HELP MY INFO LOGOUT

Image Record:
Browse... No file selected.
Choose a JPG file please. Or leave empty to skip Image Record.
Sensor ID: Sensor ID number
Time created: HH:MM:SS
Date created: DD/MM/YYYY
Image description: Description goes here.

Audio Record:
Browse... No file selected.
Choose a WAV file please. Or leave empty to skip Audio Record.
Sensor ID: Sensor ID number
Time created: HH:MM:SS
Date created: DD/MM/YYYY
Audio length: in seconds
Audio description: Description goes here.

Batch scalar data:
Browse... No file selected.
Choose a csv file please. Or leave empty to skip Scalar Data.

Upload

- 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)