

# Welcome to Coordinate.

Coordinate is a website created by Max Lu and Olivia Angiuli that lets users send and receive snapshots of their locations to their friends. Users can choose to send their location to a friend at any time, or can request that another user send them their location. This website enables people to easily locate their friends and facilitate meetups. Coordinate can also be used to take attendance in large classes or enable parents to ensure the safety of their children. It also acts as a social medium through which users can send personalized messages along with their location.

## Setting Up Coordinate

(Adapted from [https://manual.cs50.net/Where\\_to\\_Begin#External\\_Access](https://manual.cs50.net/Where_to_Begin#External_Access))

1. Save the project into the `~/vhosts/` directory.
2. Make sure the latest version of the CS50 Appliance is installed and that Apache and MySQL are enabled. If not, follow the instructions on CS50's Where to Begin page.
3. Open up your Appliance's `/etc/hosts` file:

```
sudo gedit /etc/hosts
```

and add the following line to the end of this file, then save and quit gedit:

```
127.0.0.1 project
```

### 4. Execute

```
chmod a+x ~  
chmod a+x ~/vhosts  
chmod a+x ~/vhosts/project  
chmod a+x ~/vhosts/project/html
```

### 5. Enter the html directory:

```
cd ~/vhosts/project/html
```

Then chmod three directories:

```
chmod a+x css img js
```

### 6. Enable access to the MySQL database by typing:

```
mysql -ujharvard -pcrimson < config.sql
```

### 7. Open up Chrome and visit the URL <http://project>.

**NOTE: Since HTML5 geolocation is not highly accurate in the CS50 Appliance, it is best to view the site outside of the appliance by enabling external access with the following steps:**

1. Find your local computer's hosts file.
  - On Windows, it can be found at C:\WINDOWS\system32\drivers\etc\hosts. If working with Windows 7, you can follow the directions [here](#) to get administrative access to the file in Notepad. (A general solution would involve using Windows' "Run as..." feature to open a text editor with elevated privileges.)
  - On Mac OS X, it can be found at /etc/hosts. You can open this file through the Terminal with nano, say, by executing `sudo nano /etc/hosts`
  - On Linux, it can be found at /etc/hosts, which you should also access with elevated privileges, as by invoking `sudo`.
2. Next, determine the IP address of your Appliance, which is visible in the bottom right corner.
3. Add WWW.XXX.YYY.ZZZ project (on a new line) to your hosts file, replacing WWW.XXX.YYY.ZZZ with the IP address you found earlier.
4. Save, and restart your browser (you may need to clear its DNS cache). See if you can visit the website at <http://project!>

## Registering for Coordinate

If you do not have an account, you must first register for an account. You can do so by clicking the "register" link at the bottom of the login page:

[or register](#) for an account

On the register form, simply fill out your name, email address, and password. Then click Register. You will automatically be registered and logged in.

## Logging into Coordinate

Enter the email address and the password with which you registered, and click "Log In". You will be redirected to the home page.

## Adding Contacts

In order to share and request coordinates with people, you must first add them as contacts.

- First, click on the "Contacts" tab on the left panel of the screen.



- Click on the red "Add Contacts" button.
- Enter the email address of the person you'd like to add as a contact.
- Click "Add". You can only add contacts who are already registered for Coordinate.
- The new contact will appear on your contact list! To view his/her details, simply click on his/her name.

# Deleting Contacts

No longer want to be contacts with someone? No problem.

- Click on their name under the "Contacts" tab.
- On the bottom of the page, where their details appear, click the gray "Delete" button.

# Sharing Your Own Coordinates

- First, click on the "Share" tab on the left panel of the screen.



- On the drop-down menu, select the contact with whom you'd like to share your coordinate.
  - If the person does not appear, you must first add them as a contact. See the "Adding Contacts" section above.
- Enter an optional message in the textbox.
- Click "Share your Coordinate". You have just shared your location!

# Requesting Others' Coordinates

- First, click on the "Request" tab on the left panel of the screen.



- On the drop-down menu, select the contact whose coordinate you want.
  - If the person does not appear, you must first add them as a contact. See the "Adding Contacts" section above.
- Enter an optional message in the textbox.
- Click "Request a Coordinate". They will receive a request from you under the "Coordinates" tab.

# Viewing your Shares and Requests

- First, click on the "Coordinates" tab on the left panel of the screen.



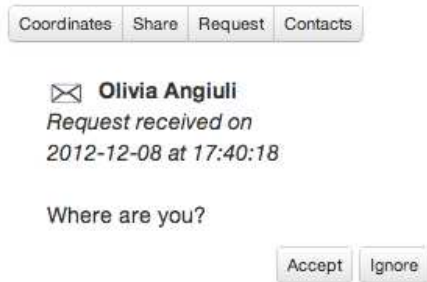
- There will be a list of all coordinates that you have sent and received. By clicking on an entry, you can view all locations that were sent or received in the past. Any pending requests that have not yet been responded to are not clickable. Pending Coordinate requests have a closed envelope icon, while read Coordinates have an open envelope icon.

# Responding to Requests

- First, click on the "Coordinates" tab on the left panel of the screen.



- For any pending requests, there will be an entry that looks like the below:



- When a request is pending, neither party will be able to click the entry.
- If you would like to share your location, then click "Accept". The entry will be clickable and both parties will be able to see the coordinates.
- If you would not like to share your location, then click "Ignore". The entry will disappear from both parties' "Coordinates" pages.