



Documentation

The Heartnotes website can be currently reached at [<https://ide50-aec78.cs50.io/>]. Setting up the HeartNotes website requires no hardware, and can be easily done in a cloud9 workspace configured with the CS50 IDE. Download the zipped file from CS50 submit, and unzip it. Then, chmod as follows to allow proper permissions to view your files. The below is assuming you now have a jarhearts folder in your workspace (yep, I changed the name halfway through). Commands are based on the ones provided in pset7 (<http://cdn.cs50.net/2015/fall/psets/7/pset7/pset7.html>)

- `chmod a+x ~/workspace/jarhearts/public`
- `cd ~/workspace/jarhearts/public`
- `chmod a+x css fonts img js`
- `chmod a+r css/* fonts/* img/* js/*`

Next, configure your server and sql. Again, commands based off specs for pset7

- `apache50 stop`
- `apache50 start ~/workspace/jarhearts/public`
- `mysql50 start`

Open up jarhearts/config.json and change the password and username to the password and username for your workspace. Then, create a jarhearts database and import the two tables, 'notes' and 'users'.

Visit <https://ide50-yourusername.cs50.io/> to see HeartNotes in action!

Now, let's go through the files of HeartNotes

- Includes folder
 - config.php and helpers.php both have minor changes, in the pages allowed to be viewed without logging in. Functions in helper.php have been tweaked as necessary, and a new function, generateRandomID, generates the unique key for each user.

- Public folder
 - Css
 - All.css is the stylesheet for the homepage, which is a different format than all the other pages. This was my experimenting with changing the style of a webpage, and using parallax scrolling
 - Img
 - Contains the images needed within the website
 - PHP controller files
 - Various files that handle the php of the page, and then render a view
 - Also, there's a favicon and squarelogo, left over from my attempts to connect with gmail authentication
- Views folder
 - Shows the various views passed in by render.

Heartnotes was based on a craft project I made last summer, for my best friend, since we were moving to opposite sides of the country for school. The craft idea was a jar filled with little slips of paper, each containing a song, memory, or pep talk. The jar is meant to be a support when a friend can't be physically there. Pull out a note for a bit of encouragement or cheer when you're feeling down.

Heartnotes the website expands on this concept, allowing a jar built not just by one friend, but by all of your friends. The person organizing the jar can make an account for the eventual recipient, go to **account information** and share the url with uniqueID. Other users, logged in or not, can choose the type of content they want to upload, and fill it in. The form will not submit unless all elements that need to be filled are filled. Logged in users can view their submitted notes, and whether or not they were read. After the friends have all submitted notes for the virtual jar, the organizer can give the recipient the login username and password. Then, the recipient can check back for today's note every day, where a new note will automatically appear. If that day's note was sent by a registered user, the recipient can send a note back. The recipient can also look back at past notes. </body>