*Week 1: 7 hrs*

*Week 2: 13 hrs*

Week 3: 19 hrs

|  |  |
| --- | --- |
| **Mon, 1/31/21-** 2. | 3hrs researching, reviewing, looking over docs for indie project, generating user stories  Looked up how to add onenote file to git…didn't find what I wanted |
|  |  |

* + - Need to start drilling down features/mvp
    - How many pages? SPA? Or do I need a results servlet/jsp?
      * Welcome page with featured resources/new/events, sign in/sign up, search form
      * Add listing form?? Or for later?
      * Results page
      * About/contact
    -  ?Which software for wireframes? Figma?
    -  Don't forget WHITE SPACE IS GOOD
    - How to use Agile dev practices?
      * Use template, review

* + Think about how to do the search by location, zipcode functions, need google map API thing? Need to separate by service locations, not corp address
  +  Pare down user stories
  +  Which apis to use?
  +  Started thinking about entities and ERD
    -  What are my entities?? I need some many to many relationships, how do decide what they are?SuperClasses/subclasses, inheritance, INTERFACES?
    -  What about api data?? How is that modeled/mapped?
    -  How much are you going to input into database vs APIs?

*From <*[*https://d.docs.live.net/adc24b2eae462860/Documents/Enterprise%20Java%20journal.docx*](https://d.docs.live.net/adc24b2eae462860/Documents/Enterprise%20Java%20journal.docx)*>*

Developing a class:

* + Figure out what the class is supposed to do,
  + list variables and methods
  + Write prep code
  + Test code
  + Implement, test, debug

Mon 1/31/21

830pm-10

Exploring Monday.com project mgt software, per Lisa on Slack, watched a couple of intro videos, but my cat just died, so I wasn't really into it.

-seems like it's just for keeping track of tasks and goals, etc…limited scope for what I need, I want something that helps me figure out what to do LOL!

Okay, let's research Java planning then….SEE JAVA PLANNING SECTION

!? I really need to organize and plan how I am going to accomplish this

 Think about sociological aspects of my users and how I can incorporate into UXUI

* + How is this important?/does it really matter?
  + Vulnerable populations!
    - Immigrants/some not legally recognized, let them know if documentation is needed
    - Language!!! Hmong, Spanish option/buttons
    - Sensitivity to situations, beware of judging, stereotyping

JAVA PLANNING SECTION/notes

 \*they would only need to think of creating "good object-oriented, thread-safe designs."

What's up with threads??!!

* + Ways to improve the design of your objects
  + Building class hierarchies
  + What are interfaces for?
  + What is the point of polymorphism?
  + Choosing between composition and inheritance
  + Designing for thread safety
  + Designing for thread cooperation
  + The Model/Controller/View architecture used by the JFC classes
  + Design patterns

*From <*[*https://www.infoworld.com/article/2076601/introduction-to--design-techniques-.html*](https://www.infoworld.com/article/2076601/introduction-to--design-techniques-.html)*>*

*From <*[*https://www.infoworld.com/article/2076601/introduction-to--design-techniques-.html*](https://www.infoworld.com/article/2076601/introduction-to--design-techniques-.html)*>*

As you define the system, you will likely want to document your work in one or more technical specifications. Documentation allows you to communicate the design to other interested parties in the organization and to get their feedback. You can pass out the specification, call a design review meeting, then present the system design at the meeting. The group can discuss your design and hopefully find any problems and make suggestions. Getting feedback -- and making adjustments to your system design as a result of the feedback -- is an example of iteration in the process of software development.

*From <*[*https://www.infoworld.com/article/2076601/introduction-to--design-techniques-.html*](https://www.infoworld.com/article/2076601/introduction-to--design-techniques-.html)*>*

Tuesday, 2/1/21, 3 hrs

Thinking about design, wireframing, do I want to draw on paper or use a program?

-Adding figma project to start wireframing

Programs are so boxy, though, aesthetically and mentally… you have to choose from already made stuff instead of creating, which I should like, premade code being reused…

* I don't want it to be like everything else… I suppose every dev says that, and I vaguely remember warnings about trying to reinvent the wheel in UIUX class…

There are patterns for a reason.

In the words of Harry Chapin, "Flowers are red, and green, leaves are green,

There is no need to see flowers any other way than the way they always have been seen…" Cue chorus of children.."But there are so many colors in the rainbow, so many colors in the morning sun, there are so many colors in the flowers, and I see every one".

I realize I need to learn much more about the basics before I can get creative, same with any craft…

I want non boxes, wavy, soft lines and gradients…

Color that gives a sense of trust and care…blue/purple? Trust?? How to achieve a friendly space?? Comfort, Family, Grandma…

Evoke HEARTH…fire, warmth, shelter, community…sharing a pot of soup and bread, you could go much further into this psychology if you wanted to really grow the community, it becomes a culture…the sharing of food creates community, universal, primal,

PHOTOS of food, community, the people working for food security!

Probably more for future development, but it would be nice to have photos, bios, of the orgs providing services, to build trust and community

Again, don't forget white space

CAN YOU ACTUALLY ACHIEVE THIS WITH CSS??

IS THIS A GOAL FOR MVP, OR FOR LATER????

Revelation, or not, but this is my favorite part of this whole Web Dev stuff. I kinda knew it while taking UIUX class with Kari, but I figure everyone likes it because it's fun and creative, it's like the candy you get for doing the rest of the not so fun work… I've gathered that it's really hard to break into the UIUX field, and I don't have the graphic design background that most are looking for. My favorite part is the sociology; delving into the problem that you are trying to solve, or the product and it's target market in commercial venues…and researching the social variables, configuring user research experiments and testing…  **That would be my dream job…**

**But, it's only a small part of this project, so I shouldn't become too consumed with that aspect.**

**Don't forget about accessibility! How does that relate to java, besides making the html labeled and navigable?**

Wed: research, 2 hours;

\*searched for photos to use, trying to convey a welcoming hearth….downloaded some free food pictures,

but I think I might try to

get some pictures from the community, they would mean more…

\*research existing services/sites that provide similar services

<https://www.feedingamerica.org/find-your-local-foodbank> -this only has Second harvest in this area! Only members

are included in search

<https://www.hungerresourcenetwork.org/news>

<https://mazon.org/covid-19-response/50-state-hunger-guide/>

<https://communityfoodshare.org/get-food/find-food-pantry/> I contacted this org to ask for any advice

about their app/experience

<https://www.foodpantries.org/> This is a good one!

Whelp, they already have everything I wanted to do…Now I feel conflicted…

why reinvent the wheel if this org has already put in the work?!

It feels disrespectful, almost…but that's the way it is in software, I guess… I need to do something, after all…

make it Local, make it personal, make it welcoming! Make it Madison!

Try to reduce stigma…..?how?

* It's not just a tool, it's an invitation to welcoming and helping hands and community,
  + (although some of those features may not be in the first release, like member chatting thingies, blogs??)
* It reminds you that you are not alone! Neighbors care, we won't let you go hungry.
* It's informative and forthcoming, offering the services of our area like a cornucopia….
* It's easy to read and accessible!!! To seniors, language barriers, sight
* Simple, easy to understand language and navigation

Sat:

4.5 hrs class work; log4j, added to project,

Sun: 4 hrs, class , junit, very frustrating

**WEEK 4; 15 hrs**

**Mon: 4 hrs, captcha exercise,**

Review project docs

Created dbERD diagram in vertabello

Created application flow md

Worked on wireframes

The Entity Relationship diagram, Wireframes,

I still have some fine tuning, need some feedback…

Do I want/have time to do the add resource function?

Need to save some time to CSS, accessibility concerns….

Lots of icons

Large, simple UI

Other java accessibility stuff????

Aria labels

Html/contrast checkers

Java accessibility API!!!

I need to look into how to make the language changing button

Do I need to have separate jsps for each entity view?

**Tuesday: 2/9/21 4 hours**

Used my social media network to solicit food resources and information from

Community groups, I'm hoping this will give me some good contacts and leads on.

Generating a lot of interest!

Lesser known resources like the little pantries people have in their yards.

Also asked for photos for the website

Makes me wonder abour permissions and info sharing rules/legality..

Do I need their permission to share it?

What's the general rule?

/

!! Don't forget to add boolean Delivery in resources!! I forgot that!!!

AND open days/times

Thinking about what the expansion of this app would look like…out of Dane county…????????

Additional resources

Working on paring down user stories into the minimum viable product…

Do I want to add the capability for users to add their own resource??

Do I have the time???

I have no idea how much time this all will take!!!!

I want to have time to create a great UI/UX!!!!!!!!!!!!!!!!!

With state of the art accessibilty for java!!!!!!

How do classes and hierarchy affect my db design and implementation?

I only need certain info for each type, so putting them all in one resource table would seem like overkill, but I can make extra fields nullable, though that is probably not a good practice.

?are there going to be any methods in these classes besides get and set? Is the resource class like the ‘directory class’ or do I need another controller class beside servlets -yes, the db classes, daos

Resource(abstract) => Food resource => each type of resource

Started writing some class files..resources, users, ran into a source release problem that I had to do some research on and work out.

-I should add an Event Class

-service location; should it be an array of zipcodes?? Or would that be hard to figure out and obtain that data, or should it be a string description?

**Thursday 2/11 5 hrs**

Going through social media responses; I got a very welcoming response, much encouragement, and great ideas for future releases! People suggested more information to include about the resources, such as nearest bus stop, actual address, who they serve, if proof of income, who qualifies/ paperwork needed(now included as something in the db) where delivery is served, schools with curbside pickup, whether they have pet food, whether they have non-food essentials.

I received a lot of great info on resources. Someone suggested having a rating system, commenting, or advice on pantries, which would def be a 2 -3 rd release.

It seems like a heck of a lot of columns for 1 table, I would probably have to break it up somehow??

!!!plan to add a fb or website as a resource! Think about how that data model will differ from super class.

!!Don’t forget CRUD!! You will need to create an admin form/view/jsp!

Going through feedback from checkpoint 1:

WOW!!!! I am impressed [**@hmkurth**](https://github.com/hmkurth)! Look how much you've done already! Reviewing your repository so far was liking drinking from that proverbial firehose! It's clear you put a lot of time and thought into this work.

I think you've done a good job paring down to MVP. I do want you to know that it is ok if you do not hit every single thing on the MVP list (that sometimes stresses students out as we near the end of the semester). Hitting much of the MVP and the project requirements like full crud (create, read, update, date), authentication/authorization, etc, is perfectly ok!

My thoughts, observations, and questions:

*  Markdown may be new to you. If so, or even if it isn't, this is a good resource to help understand how to format with GitHub markdown: <https://guides.github.com/features/mastering-markdown/>. For example, I think feature list here could be better  
  [](https://user-images.githubusercontent.com/13874466/107564816-8382d780-6ba8-11eb-8607-9cec0e889b7a.png)
*  Just to clarify your comment about needing many-to-manys. You do need more than one one-to-many relationship. Many-to-many relationships are **not** required.
*  Representing resources types in the DB. What do you think about a simple table with the type on it? In the fat bike trail reports example, see the trail type, difficulty, or grooming type for examples. (Disclaimer: I am not a DB design pro, so if I'm guiding you differently from what you learned in class, let me know!)

Journal responses:

1. I'm very sorry to hear about your kitty :(
2. SPA versus JSPs/Servlets. SPA is a-ok, that may mean, though, that you will need create services for the various aspects of your application. Example: the current search we did with jsps/servlets went something like jsp form => servlet => user data class, which created and returned a list of Users => servlet => JSP. With a SPA, a service would likely replace the servlet/userdata/user/servlet piece. This is actually the exercise for Week 9, so you will definitely be learning this, however that might be a bit late to implement it fully? Consider learning this sooner than the scheduled? Know that many of the pieces that we are building in the next few weeks will still be the same if you "servicify" - still need DAO, entities. What would go away are the servlets, which are replaced with services.
3. [https://www.zipcodeapi.com](https://www.zipcodeapi.com/) can be a good one for locating "things" in a radius. If handling location data is not in the MVP, another api that might add value to your project is java mail - which is a java library that allows emailing. Perhaps there's a need for functionality to email the admin if there is bad info somewhere?

What else? Does this help??

From the community:

/\*\*  
Eric Salzwedel  
Salzwedel Community Little Free Pantry - Marshall 53559  
  
Makalah Wagner  
Start here for ones already mapped - https://m.facebook.com/groups/daneconeighbors/permalink/2305374192940507/  
Karen Andro  
https://www.cacscw.org/.../dane-county-food-pantry-network/  
  
 Marlene Hardick  
badge icon  
Please. Include nearby bus stops and actually address, phone #, actual days, hours open. Can clients shop for what they want or is it picking up a box at the curb.  
 Delivery? Where? Area served?  
 Registration needed? Proof of income needed?  
 Schools with curbside pickup? Who qualifies?  
  
 Sara J. Ariss: watertown comm pantry,  
 Ruby's Pantry  
 Genos Pantry  
Immanual UMC jefferson  
  
Community fridges:  
https://www.facebook.com/MadisonCommunityFridges/?\_\_cft\_\_[0]=AZV0tt5nCgAEy9gwA-7ouvm4IHLIqZgNbD5ah1UnIg9SVYGGLO7j9f5\_J6fVC0T3rSammvDpwirmVaBKa2in8GosPwmuUkp7eh6b2kVxUortLAgdEWjKr8NPf6ZVDZCAHiU\_akTrj5h\_E0Lin0trirxo2HJPXu4JFzkCdTwMnyKevR0TxftPeKuxIA479dFFBFw&\_\_tn\_\_=R]-R  
Prairie rod pantry  
  
Sandburg Community Food pantry (although we are temporarily not active due to the cold weather) https://www.facebook.com/sandburgfoodpantry  
 https://publichealthmdc.com/.../2020-04-06\_COVID-19\_Food...  
 http://bit.ly/MadisonCOVID-Edit the food section might be a good start  
  
  
 May i recommend a place for folks to comment, give advice, rate the pantry?  
   
 \*//

**Sat 2/13 2 hrs**

-going through the weeks readings, videos

Additional Resources I Need To Research!

Using google maps in my app

Accessibility! What is the newest tech/best practice specific to Java?

WEEK 5; 17 hrs

Mon 2/15 1 hour-

Prepping for TV interview!! Channel 3 did a segment about my project, which was really heartening and exciting. I have alot more pressure to do this well, now.

Wed 2/16 8 hours

Working on adding hibernate to my project, having a few troubles after moving to a test db, now I keep getting a table not found error, I did some googling, but I haven’t figured it out yet..

Thurs: 2 hrs

Working on getting the logging just right with hibernate filepaths, I’ve been getting errors that the files can’t be renamed, so I tried renaming and moving, I fixed the error for now, but my hibernate logs aren’t I the right place with the right name…so…

\*I think I fixed it by removing a colon in the filename, but I very well may have screwed it up…will have to monitor logs

Sat 2/20 : 4 hrs

Working on the userRole dao and testing, after implementing the .equals method I have a lot of failing tests

Sunday 2 hrs:

I went too far in implementing the .equals method, and did it for the userRole dao, too, which was what was leading to all the problems I was having. I am still having a problem with inserting a role without a username, so for now I have made that column not null, so I will have to monitor that as well.

I don’t think I ever got that student liscense from IntelliJ, so now my sessions are limited to 30 minutes..have to check on that…

I haven’t gotten as far as I wanted to on my project ☹. There are a lot of little details to get right with the hibernate Db setup, I’m dreading it a little.

Made the generic dao class and used it for testing with userRoleDao tests.

Tues 2/23: 2 hrs

Working on the dreaded database. Well, more so dreading the testing than the actual implementation 😉.

I’m wondering if I have too many fields on my food\_resource table…and still wondering about class hierarchy and subclasses…and how that all fits in… For now I’m unsure of how the type table really fits in. I want to classify resources by type, I want to be able to show the types of services offered by each owner, and each resource by type. I made a location and contact table to get rid of redundancy. There is still some ambiguity in some of resource columns, though…room for error. Like for delivery, maybe I should make that a Boolean and reference another table that has better delivery details(more searchable)…. Then I would add 2 more columns, though, a delivery Boolean and if there is delivery offered a deliveryServiceId… I could also have a meal details table..but I don’t think I will go there yet.

Having trouble figuring out the location relation, resource owners can have locations, so can resources, so does that mean location can have a set of resources associated with it? Yes? And then since it can be a location to two entities, an owner and a resource, do I need to have 2 sets?<> No, I think only services will have locations, I don’t need to include location details for owners if it is in their services…

Starting to write and annotate the entity/class files, these relationships are so confusing, which annotations go where, had to do some reading up…

So this is cool:

Hi Heather,

My name is Julie Eichhorn, and I am a researcher at UW working at the Waisman Center. I am also a student in the D2P program on campus. During this class we learn how to take an innovative product to market. Our team is interested in learning more about your class project and the impact on local food pantries.  Additionally, we recently learned about gathering free marketing resources and wondered if you would share your experience and any resources with us.

I can be reached at this email address or by my personal cell at 317-850-2996.

Thanks for considering my "cold" call email,

I’ve been thinking about what you said about the entrepreneur project thing, and I want to look into it, the only thing is, it’s not really a “business”. But I suppose services are the largest growing businesses these days…😉

Also updating resume for the career fair tomorrow, fingers crossed. And I applied for that Atlassian job, that sounded really cool.

Sun 2/29 10 hrs

* Working on reviewing Jordyn’s project.
* Clean Code talks
* AWS deploy: oh boy, this was going well until the last step, where it all seemed to fall apart. I had putty working. I just can’t get the data on the AWS deployment, so I spent a loooong time trying to create different WAR files in IntelliJ, editing the run configurations, and redeploying on the tomcat manager. It’s still not working.

Tues 3/2 9;30-2;30

* Still trying to deploy on AWS, now putty is having a connection time out issue, so I tried the windows ssh, and I get a connection timeout, too.
* I’m getting really overwhelmed and feel behind and hopeless. There is soooooo much to get my head around. But I need to get ready for checkpoint 2. So I need to just focus and try to go back and fix all the things that are wrong so far. I need to get more organized, and go over all the feedback I have received.
* I am not sure if this is causing issues with your equals and toString methods, but we have to be careful with methods like toString with one-to-many relationships. Example: if User.toString writes out all the variables on user including roles, this will automatically call the Role.toString(). If the Role.toString() tries to display the User, then the User.toString() tries to display Roles, and we end up in an endless loop resulting in a StackOverflowError. At some point, you have to break the cycle - that might mean User.toString displays Roles, but Role.toString() does not display User. Does that make sense?
*  It looks you have a start at implementing the genericDao! Once you have it fully implemented, you should be able to remove UserDao and RoleDao, leaving you with a single dao and hopefully full code coverage!
*  Think about testing the delete scenarios in one-to-many relationships more fully. For example, if a user is deleted, what should happen to that user's roles? What if a role is deleted? Write tests to make sure whatever should happen, does happen.

Feedback from Peer Review:

You covered a lot of info in your database! You have at least two one to many relationships and everything covered in your problem statements is present. I like how you split out the different info for your tables. I used to work in a non-profit and we worked with organizations who had overhead organizations, multiple locations, specific contacts, and different owners who didn't want to be bothered. To me your design accurately reflects the structure of this world and shows you're very familiar with the industry and how it works! Your database design is a good start, but there are a few changes you might want to consider:  
\* Is the website column in food\_resources and resource\_owners referring to the same website? If so, you might not need it in both columns.  
\* Some of your columns might be bigger than necessary for the data you're storing which can slow down your application (for example - service\_area at 1000)  
\* There is a description field in resource\_types and food\_resources, but if resource\_types is meant to categorize different types of resources you likely don't need the description column there because it will be covered in the individual resource descriptions. Another option would be to shorten it to 50-100 character with a brief description of that type of resource, if that data will be present somewhere in your app.  
\* It looks like you have an id column for food\_resources in the resource\_types tables. I'd actually recommend doing the opposite, since you want to have each food resource categorized by a specific type from the resource\_types table. The way it's laid out right now you will only be able to identify one food resource of each type, when I think your intention was to have all resources be one of the types listed. You do have a column for resource types in the food\_resources table but it's not linked to the resource\_types table. I'd recommend removing the resource\_type column from the food\_resources table and replace it with a resource\_types\_id foreign key column that corresponds to one of the types in the resource\_types table, and then removing the food\_resource\_id column from resource\_types so that multiple food resources can be associated with a type.  
\* In the resource\_owners table you have types\_offered which is plural. Assuming a resource owner will offer more than one type of resource, you might consider breaking that out into a new table where resource\_owners are mapped to resource\_types by id of each (i think this would be many to many) so that you don't have duplicative info in the resource\_owners table if a resource owner offers multiple types (this is only relevant if a resource owner will provide multiple types).

Fixed logging, I think, but I still can’t get the user and userrole dao tests complete.

Still can’t connect to AWS deployed data.

Wed 3/3 930-1130

Still working on AWS deploy, I had trouble navigating between the datasets for different apps, so I had to rework some of the user display exercise to work with the datatables that took from the user/userRole tables from my project. I think I am finally making progress, though, as now I at least know where I am going wrong.

Thurs 3/4 11-2

Working on security reading and videos.

TODO: define servlets in my app, business classes, define business rules.

Fri 3/5 9-12

Still trying to deploy to aws. The cleanDB seems to not be working properly, so my tests don’t pass, and until the tests pass, I can’t even try to deploy my app. Might be a problem with foreign keys…

I got the production db configured for TC authorization, but my app context is a \_war file, and that isn’t the same as the demo.

Sun 3/7 9:30- 2, 5-9

STILL trying to get my users into the authorized pages…it’s very very frustrating. I eventually just commented out tests because they weren’t working just so I could deploy. I am extremely worried about the future of this app with all the different information and dependencies that I have. This is extremely slow going and frustrating. I eventually found an error in the context xml, and was able to deploy.

Mon 3/8 9:30 -1, 2-3, 5-6

Still trying to debug my app with tomcat authentication.

Also made my security presentation. After getting help from you and slack I finally figured out that my problems have something to do with flushing privileges in the right place, and I finally got the app deployed and a user was able to get in to the search area, but I then got a 404 error.

Thurs 4:30 -7:30

Finally worked out the bugs in my deployment, after spending alooooooot of time on stack overflow, triple checking stuff in my app, I had a forward slash in front of my action in the form. I’m not sure why I had it there.

END /of week update: (from thurs 4/4 to 3/11) hours: 21

This was the toughest week, nothing, and I mean nothing, went well. Everything took 5 times as long as it should have, and I’m now I’m more behind than ever. I haven’t had the courage to even check my grade lately, and I’m hoping there will be a pass/fail option if things keep going the way they are for me. On top of that, job prospects look dim, internships even more so. Out of 15 applications all I got was 2 no thankyou emails. I’m feeling pretty hopeless at this point. I don’t even thing my indie project is going to work out very well if I can’t get on top of all this entity, SQL stuff… There are just soo many details, and so many things to go wrong.

WEEK 8, 8.5: 21.5 hrs

Sat 3/13 9:30-12:30, 1:30-2:30, 5 – 8:30 (7.5)

Going through weekly videos, readings.

Trying to figure out this location API, there is a lot of stuff in there, how do I use it? I’m trying to find any demos on using the API key, but I can’t find any that were referenced in the videos.

Sun 9:30- 11:00 Researching APIS for project

Tues 3/16 11 – 2, 3-8:30(9.5 hrs)

Trying to set up my indies project on AWS. I had a lot of trouble with this, between trying to ssh into an instance, to trying other shells, tring to add all my Ips, it’s been trouble. I tried using the AWS troubleshooting app, but that seemed too complicated, looking at system logs… ☹

Finally got it working, I need to have pageant(putty) running, and have the key imported, I think I need to do this everytime i restart, login as ubuntu.

TODO, figure out how to change my deployed war file name, as right now it has spaces in it.

CSS

Looking at accessible templates available on the web. I noticed right away that bootstrap wasn’t very accessible, with it’s heavy reliance on non-semantic divs for everything, so I wasn’t sure if I could really use much of it in my site template. Hopefully I can find something that isn’t $$ that helps wrap bs to be more accessible. So I found one for $18 that looks pretty cool, I think it’s going to make things much easier for me to implement accessibility.

-starting to implement this template, I need to break down the content into the jsp pieces like we did in our last semester project.

-trying out some of the new html, a few pathing issues to navigate, but I got those worked out, I think. I’m not sure if the the font resizing feature/button is supposed to work out of the box with font awesome and jquery, or if I need to make an action for the button and manually resize the text through a method, but that seems like something that would be accomplished through the provided libraries. This led me down the path of looking for css.min.map, which the error console said I was missing, after looking into it, it appears that this is an annoying thing that pops up because of an axe extension, so may not be the source of why this function isn’t working. This feature would help with WCAG compliance, so I will need to figure it out.

-also need to research language manipulation, the template provided the language dropdrown, but I need to link to the resources….

-I love doing the accessible stuff, but it’s a whole discipline in and of itself… This project is starting to seem more long term…I can start using some stuff, but it’s going to take me a long while to make it all work together in a symphony… At this point I might just be happy to see a simple, somewhat functional website with all the techs implemented in 2 months, but I should be set up nicely to continue to working on it through the summer to improve it.

-what is Swing, I have started seeing it in accessibility? Do I need Swing to implement the access API? How will that interact with the template I just installed??

**Swing** in **java** is part of **Java** foundation class which is lightweight and platform independent. It is **used** for creating window based applications. It includes components like button, scroll bar, text field etc. Putting together all these components makes a graphical user interface.

**Swing** is a platform-independent, "model–view–controller" GUI **framework** for **Java**, which follows a single-threaded programming model. Additionally, this **framework** provides a layer of abstraction between the code structure and graphic presentation of a **Swing**-based GUI.

Swing vs AWT…is it outdated?

Wed 3/17 9:30-12, 3 -5 (4.5hrs)

Back to working on the app, trying to get authorization working on my deployed app, another big headache. I spent a while trying to figure out how to get the mysql jar into tomcat, downloaded WINSCP to try to do that, and in the end didn’t have the file permissions to make it happen. Then Paula told me that the right jar was already in there.

So I’ve been going over and over the auth steps again, double checking configs, redeploying, bouncing the server, checking the tables… I had it working locally, changed the db name to create the war file for deployment on AWS, then uploaded it, still not working on AWS.

I can log into mysql from the command line with the tomcat creds.

**Week 9**

Tues 3/23 10 – 2:30, 4:30 - 8

Still trying to ge:t authorization to work on my aws deploy…updating journal and time logs.

CHANGED the name of the war file, and finally got it to work, no spaces.

Worked on week 9 materials, REST apis

Updated docs for checkpoint 3, complete.

Attending online class and meeting with team for project.

Made snapshot of EC2 instance.

TODO!!!!

work on prof dev project!!!!

-checkout that test data thing that guy mentioned.

-EC Exercise!

-Merging practice thing

Wed 3/24 330-830

Looking over database design, edited it..

Looking over location apis… still not sure what/how to accomplish what I want…

1. A link to google maps may or may not be an api call.
2. Option 1. This [link](https://www.google.com/maps/d/viewer?hl=en&gl=us&ptab=2&ie=UTF8&oe=UTF8&msa=0&mid=1Z5Iqwt2BI4dS-F9LpIxA90jmcuU&ll=43.12075%2C-89.32675200000001&z=17) will open up a browser showing Madison College in google maps. This is simply a link that you could store in the db, and put on a page as a link that user could click on. I see this as simply data stored in the db and displayed to the user. Not a true api call in my mind.
3. Option 2. You could use the google maps api to display locations on a map within your web site. Since this is very much a visual thing, using the api with javascript makes sense (remember javamail meets your api w/ java requirement). Here's one short tutorial about how to do this: <https://developers.google.com/maps/documentation/javascript/adding-a-google-map#maps_add_map-typescript>.

Signed up for this: api key= I don’t know if it’ll be what I want of If I can even learn how to use it…

AIzaSyCLGoKo1ZhK7TyAsvpPwQZmlLsAQxWnpRM

So now I’m trying to create all my classes based on the db, but I keep getting persistent entity errors. I want to use the entity for the foreign keys, Contact, as contactId type rather than int, but I get errors, so now I’m switching to use an int… from docs:

@ManyToOne

@JoinColumn(name = "person\_id",

foreignKey = @ForeignKey(name = "PERSON\_ID\_FK")

)

private Person person;

@OneToMany(cascade = CascadeType.ALL, orphanRemoval = true)

private List<Phone> phones = new ArrayList<>();

@OneToOne

@PrimaryKeyJoinColumn

private Person person;

public void setPerson(Person person) {

this.person = person;

this.id = person.getId();

}

I think I’m getting somewhere with this, entities are created, I had the wrong annotations and was otherwise confused with relationships…

Thurs 3/25 930-1

Still working on the user dao test…delete with multiple…going back through hibernate material.

Do I want there to be multiple roles for a user, or just increasing role powers?? NEED A ONE TO MANY!

org.hibernate.AnnotationException: @Column(s) not allowed on a @OneToOne property: com.hmkurth.entity.FoodResource.contactId

Unknown mappedBy in: com.hmkurth.entity.FoodResource.type\_id, referenced property unknown: com.hmkurth.entity.Type.food\_resources

Had to take out all of the @Column annotations on the one to ones…

ContactDaoTest is Complete!!!

Sat 3/27 1-4

I did some boilerplate setup for the team project, deployment. I researched some user documentation plugins, and found one that looked promising, Miredot. We Don’t really have anything written yet, but I can’t find where that documentation is ending up, it’s supposed to be in a folder under target. SDo I may have some troubleshooting to do on that part.

Sun 10-12 5-730

Met with the team to discuss our project plan. I have a little better understanding of what we are actually doing, so that’s nice. I set up the database for that.

I worked on the rest exercise for this week. I was actually surprised that it seemed so easy. Everything up until now has been so much trouble, so I’m very wary that this wasn’t.

I’m continuing to write my dao tests for my project. I got the contact Rest service implemented in that project, so now everyone can find all the contacts. I think it would be a great service to extend this for the food resources.

-added miredot to project

WEEK 10: 22hrs

Tues 3/28 930-1030, 130-2, 5-8

Worked on team project, annotating hibernate, team meeting.

Thursday, 930-3

Researching more of my professional development project, creating an accessible java app. I’m starting to gather that AWT and Swing are outdated, or becoming so… I was planning to implement AWT, but now I think it might not be the most modern way to go, but Java FX looked really complicated in the prof dev. Presentation by Alivia… There are not a lot of resources out there about java accessibility, besides the oracle docs… No you tube videos about easy setup and implementation.

Still having a horrible time with the database, the food resources dao test…I’m trying to test inserting a new resource with a constructor. My class has a lot of other classes as one to one relationships, like a contact\_id of type Contact, but can’t make it work with integers, which are supposed to co-relate with contact id. I’ve looked over so much hibernate documentation it seems to make less sense…I don’t even know if I have the class annotated right… If I have 4 fields which correspond in a 1-1 relationship with other classes as id, don’t I annotate this class with :

@OneToOne  
@PrimaryKeyJoinColumn  
private ResourceOwner owner;

Sat 1030-330, 8-12

Working on AWS deploy for the team project, made an error in the context.xml file and it took me three hours to find..

Got css templating installed in team project

Sun 8-130

Working on git team thing, reviewing prof dev presentations, looking at Swing

* and maximum values. Any object that supports a numerical value should return an object that implements this interface when the getAccessibleValue method is called on an AccessibleContext.

Enabled Java Access Bridge through the command line. Starting to think this is the main component of java accessibility, and it’s already there, really… I need to use Swing to access the api, I think…built on the utilities and the JAAPI

First was AWT(show example, outdated)

Then Swing(looks old, 98?)

Then JavaFx

So I’m downloading javaFX and am going to try that…

Having trouble getting it to work in intellij, not sure if I have to have a whole different fx project or if I can incorporate into my existing one… So I’ll try to start a new one in maven with fx…

Configuring maven for fx..some problems getting it to work, downloading jdk 16 for the project, moved jar files to .m2

Moday 4/5 1-3 630-1130

So, from Paula it sounds like the JAAPI is not for desktop apps… So I can’t really put it into my project. So focus on doing a little swing demo with the accessibility stuff.

Actually, it’s just going to be a presentation about the 4 major components.

Tues 4/6 930-11-115

Rehearse, record prof dev presentation, upload to youtube, slack, student repos

Trying to run the team project locally, added my hibernate config, database properties and log4j, and it’s not finding them.. wrong folder structure. But I am now having problems getting the properties loader interface to run…

On to my project, debugging the dao tests. I changed a method or something and it cause a bunch of failures. [23000][1451] Cannot delete or update a parent row: a foreign key constraint fails (`testschema`.`food\_resources`, CONSTRAINT `food\_resources\_contact\_details\_id\_fk` FOREIGN KEY (`contact\_id`) REFERENCES `contact\_details` (`id`))

From slack:

Looks like you have a generic dao, do you need to cast to int?

I think you’re missing some annotations for description, because it shouldn’t be trying to convert an int to a Lombok @NonNull. Also I think if you’re using IDs that are mapped to other columns you need to be inserting those objects instead of ints. So for example you would need to get the resource owner using that id, and then insert the resource owner

Based on the test, I'd look at your constructors as well. You could be missing a constructor that has the values you are inserting (edited)

This is so confusing! Do I only try to reference the food-resources id’s from the other fields and not annotate them in food-resources??

Working another branch to not mess things up, updated cascading on fk to contact details and changed mapping from 1-1 to many -1…now the add sql is working..

Added

@ToString.Exclude

To location, now stack overflow msg is gone…

430-630

Got help with my dao testing, I made it harder than it had to be, I didn’t need that method like Kaitlyn had, changed back, had to get the userroles to insert, and need to do that with all the times that I am trying to add another entity into foodresources. Look at the demo code from the hibernate one to many on how to do that.

630-830

Team project meeting, went through my intellij problem, discussed next steps. We need to look at adding some error handling. Simone mentioned that there is no good way to use the parameters of the location, like to put it in a rest request??

Checked in on ec2 instance, got a bill for $8 and the month just started…

Reflections:

It’s been a helluva semester. I’ve felt behind since the beginning. Now everything is coming up, the student showcase thing, the team project, the prof dev project that I now feel not so great about because it was only 8 minutes and it should have been 15 -30, and my indie project. I’m at a stress max right now… I feel bad because I haven’t done any of the “meat” of the team project… I feel so behind in my indie project, I don’t even have user sign up, I don’t even have persistent data, I haven’t even started putting in any real data, I haven’t implemented the location API. I’ve spent countless hours on authentication, deployment, and hibernate, going in circles and I only identify the root problem maybe half the time, the other half is some trickery…files that look identical but are somehow different.

This is the hardest thing I’ve ever done… It’s a kicker on a few levels; I’ve always been able to learn stuff well, it used to be easy for me, and I got good grades.. but now I feel like the dunce, the bottom of the class. That’s hard to process. I’m at a huge divide in my life, and I haven’t done well at climbing this. I’m almost at the next precipice but I don’t feel at all ready. Like I picked an advanced trail when I was really only ready for the bunny trail.

When I think back on all the nights in the past 2 years, frustrated, crying over my laptop, trying to figure out all my mistakes in php, js, and java…. That was a lot of effort, just…A LOT…

Wed 8-11

Working on the student highlight thing.. trying to get the front end looking decent. I should probably have a real name or icon to identify/brand the site, rather than this bootstrap genericness

Thursday 1230 – 2

Working on front end of my project, trying to change the banner background with my Madison picture, but having trouble.

2-4 5-8

Working on team project front end, having problems with files and how they are translating from GIT, like this spotifyAPI properties, I think it came in as a txt, but the properties aren’t loading. So I couldn’t figure out how to make a new .properties file, so I pasted one from last semester. It’s now showing up as a property file, and I changed the name in the dao, but they are still not loading.

I eventually just hardcoded them into the spotifyDaoTest, just have to make sure to delete it..

Added some new photos, styled the edit artist page, and added a message… need to rethink link structure and where the buttons are pointing to… really have to confirm the artist before anything, can’t directly go to editing the artist.

Still having trouble with the darm spotify properties, which is really making pushing and merging ridiculous. Trying to get a new WAR file deployed with the rest service included to AWS, because I think that the document tools need to have a live service to check the endpoints, etc….

aws is updated with the latest war file...i think there are still some front edits that didn't get in, but that's fine...the database is updated and seeded with the cleanDb info..  but we're live with something happening...

9-10. playing around with images, added a table, working on dao..

Friday 1230-2

Team project, on AWS, status check failures…

Rebooted, now I can ssh, status checks are passing, but I cant reach it through the ipv4 dns…wait, are we supposed to be able to get to our app(from the host computer), through the ipv4 dns?  Because I can't, for either my project or the team project, and I thought Paula said something about it, but i can't remember exactly what...

Looking at swagger.io again, tried the url from aws, but I think I need a specific url for the json??

2-4, working on location api for my project, some problem with json mapping and the “results” field that I can’t find in any of the entities

7-8 worked on swagger documentation for team.

9- 1030

Still trying to figure out this api problem with the results array…I think it’s something like this:

The reason was that JSON String contains a [JSON array](http://javarevisited.blogspot.sg/2013/04/convert-json-array-to-string-array-list-java-from.html#axzz4vO0coVkh), the person field is pointing towards an array and there is no field corresponding to that in Person class.  
  
In order to properly [parse the JSON String](http://www.java67.com/2017/05/how-to-convert-json-string-to-java-object-gson-example.html) we need to create a wrapper class Community which will have an attribute to keep an array of Person as shown below:

**static** class Community {

private List<Person> person;

public List<Person> getPerson() {

**return** person;

}

public **void** setPerson(List<Person> person) {

**this**.person = person;

}

}

Now, we will convert the JSON String to this Community class and print each person from the list as shown below:  
  
ObjectMapper objectMapper = new ObjectMapper();  
//objectMapper.disable(DeserializationFeature.FAIL\_ON\_UNKNOWN\_PROPERTIES);  
Community c = objectMapper.readValue(JSON, Community.class);  
  
for (Person p : c.getPerson()) {  
   System.out.println(p);  
}  
  
  
Read more: <https://javarevisited.blogspot.com/2017/10/jackson-json-parsing-error.html#ixzz6rbDdNE5D>

Sat 4/10 630 – 1130

Working on team project, merged, resolved conflicts, need to get a new war file deployed..

Need to complete front end styling, and adding documentation. The documentation on swagger is almost complete, well, one of services worked, still need to get the locations by id workind.

Really trying to figure out how to structure my app to use the location api, using the client and target and trying to pass in parameters to the response…it’s hard to figure out… trying to use a properties file and build a web target first to pass to the client…

<https://dennis-xlc.gitbooks.io/restful-java-with-jax-rs-2-0-2rd-edition/content/en/part1/chapter8/client_and_web_target.html>

<https://dennis-xlc.gitbooks.io/restful-java-with-jax-rs-2-0-2rd-edition/content/en/part1/chapter8/client_and_web_target.html>

Still can’t figure that out…

But now what do I do with the MapLOcation object…do I need to make another table?? How to actually implement adding and converting the locations and the UI…where/when does that happen?

SOOOOOOOOOO much more work to do…

**WEEK 12**

Sunday 4/11 1030-430, 9-1230

3 hour team meeting, new deploy, now trying t figure out: java.lang.NoClassDefFoundError: org/glassfish/jersey/uri/internal/UriParser trouble shooting my stupid mistakes

9-1230 trying to figure out swagger and smart bear, can’t get the get locations documented correctly, the examples don’t work on the generated docs..might be because I need to remove the 8080s from the uri paths… was able to change the json thing for the get all, that looks fine… Spending a lot of time getting not much done, as per usual for me.

I finally just had to manually change the api definition in swagger, so now the parameters are inline and the response is mapped. I just need to know about the 8080…

Monday 4/12 730-130

Finishing up team project, checking swagger again, and now I’m getting 404s again in the try me part…

I just can’t figure out the try me thing, something to do with how swagger sends and headers… that smart bear inspector didn’t to seem to work very well generating, I spent a lot of time trying to work with this software, which is good to learn, but I definitely could have done it a lot faster by hand.

Now I’m working on my project with the location api dao…

I wanted to break it down into a few methods, but had trouble because I want to pass in a location, and I need that before I have the web builder because it needs the params…

Now thinking I should not have made a new class for the result. Tried to return both a result and a api.location, but then it said that my mapLocation couldn’t be returned…weird, so I wasted an hour and reverted it…

Back to the other problem of the returned value in the test being an object reference, not a MapLocation…. It was being returned null because my call isn’t going through. Needed to delete the location application file that I dumbly created for the app to work…

Ordered a domain name, madisonfoodresources.com.

Tues 130 – 3

Still trying to build a query string, getting no where fast…https://github.com/googlemaps/google-maps-services-java OMG. I had to put queryparams before request!!!

Thurs 230-630 930-1130

Trying to set up my new domain name with my instance…

Need to change to port 80 for naming conventions: go to tomcat server.xml, change port, install authbind, but I can’t find the authbind to uncomment in the server.xml…

ubuntu@ip-172-31-46-17:/opt/tomcat/conf$ sudo apt-get install authbind

Reading package lists... Done

Building dependency tree

Reading state information... Done

The following packages were automatically installed and are no longer required:

linux-aws-5.4-headers-5.4.0-1025 linux-aws-5.4-headers-5.4.0-1038

linux-aws-5.4-headers-5.4.0-1039 linux-aws-headers-4.15.0-1051

linux-headers-5.4.0-1039-aws linux-image-5.4.0-1039-aws

linux-modules-5.4.0-1039-aws

Use 'sudo apt autoremove' to remove them.

The following NEW packages will be installed:

authbind

0 upgraded, 1 newly installed, 0 to remove and 106 not upgraded.

Need to get 17.9 kB of archives.

After this operation, 64.5 kB of additional disk space will be used.

Get:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic/main amd64 authbind amd64 2.1.2 [17.9 kB]

Fetched 17.9 kB in 0s (666 kB/s)

Selecting previously unselected package authbind.

(Reading database ... 197039 files and directories currently installed.)

Preparing to unpack .../authbind\_2.1.2\_amd64.deb ...

Unpacking authbind (2.1.2) ...

Setting up authbind (2.1.2) ...

Processing triggers for man-db (2.8.3-2ubuntu0.1) ...

Changing .startup to allow for authbind: https://stackoverflow.com/questions/4756039/how-to-change-the-port-of-tomcat-from-8080-to-80



Now I guess I need to make a new file… TOMCAT/bin/setenv.sh , using vim…I don’t really know how to do this…I can’t enter… this is “shell scripting” I guess…

nano hello.sh,

so I did that, but I still can’t find the AUTHBIND property anywhere in the context.xml file… a lot of the stack overflow has different paths to these directories..

1) Install authbind

2) Make port 80 available to authbind (you need to be root):

touch /etc/authbind/byport/80

chmod 500 /etc/authbind/byport/80

chown tomcat7 /etc/authbind/byport/80

3) Make IPv4 the default (authbind does not currently support IPv6).

To do so, create the file TOMCAT/bin/setenv.sh with the following content:

CATALINA\_OPTS="-Djava.net.preferIPv4Stack=true"

4) Change /usr/share/tomcat7/bin/startup.sh

exec authbind --deep "$PRGDIR"/"$EXECUTABLE" start "$@"

# OLD: exec "$PRGDIR"/"$EXECUTABLE" start "$@"

Ended up doing this:

ubuntu@ip-172-31-46-17:/usr/share$ sudo vi /etc/default/tomcat7

* ubuntu@ip-172-31-46-17:/usr/share$ $ sudo iptables -t nat -A PREROUTING -p tcp --dport 80 -j REDIRECT --to-port 8080

ubuntu@ip-172-31-46-17:/usr/share$ sudo iptables -t nat -A PREROUTING -p tcp --dport 80 -j REDIRECT --to-port 8080

ubuntu@ip-172-31-46-17:/usr/share$

* changed the url in the pom
* changed inbound security permissions 

good thing I have that snapshot, because now I can’t figure out how to access everything…which address to use? :80? What worked in the setup?

Okay, I can get to my site at <http://www.madisonfoodresources.com/Community%20Food%20Resources/> so either the redirect or reassignment worked. Now to get that basepath off there…

Now how do I get to the tomcat manager: http://www.madisonfoodresources.com/ But it’s not accepting the tomee userid.pw… will have to go check tomcat-users…

And SSH? putty? Tried so far:

* madisonfoodresources.com: error- no such host
* 3.140.74.211, connection timeout
* 3.140.74.211:80, conn timeout
* 3.140.74.211:8080/Community%20Food%20Resources/ timed out
* <http://www.madisonfoodresources.com/Community%20Food%20Resources/> host does not exist

Something works now! I think it must have been that last one…The only thing I changed was the CIDR block in the inbound security rules for ssh in, but I <http://www.madisonfoodresources.com/Community%20Food%20Resources/>

Also forgot I changed the tomee pw…so we are good! Just need to figure out how to get the /Comm path off.

Working on logo, branding…



So, back to the location api dao… how can I just make the MapLocation add an additional table to location? I probably didn’t even need that additional class. I added the additional fields in the class and table.

Friday 4/16 3-6

I’m going to have to figure out just how I want the search by location to go…am I going to have to take in a postal code as a parameter, or their address, then use the converter, then compare to nearest markers?? How do I even mark the map?? Is that js? Did I even really need to convert addresses??? What are you doing with the returned data? To put markers on a google map you only need the address, it actually looks easy and straightforward…https://www.igismap.com/embed-google-map-with-multiple-locations/ so why are you even doing this?? You could have chosen the javamail api…

It looks like there are some geocode java libraries….https://github.com/wicketstuff/core/blob/ec08ce52854d7e4d568b3fc5c44f1310e82d3640/jdk-1.6-parent/gmap3-parent/gmap3/src/main/java/org/wicketstuff/gmap/geocoder/Geocoder.java

I found a google map that already has Madison area food pantries!! SCORE! All of the info I am collecting is on this map@!!! I can’t find out who actually made it, though, to credit or contact them… it even brings up details, but I feel like that is cheating… I bet it’s not going to be that easy to map and link them all…. I wonder how I can connect to the existing data…

https://www.google.com/maps/d/u/0/edit?mid=1ZgVN6rbAOC4ZEWfew9AHOtMUmCqW5gez&ll=42.98118737406475%2C-89.4242322&z=9



6- 9

Back to the dao tests, adding type and resource owner tests…no hiccups so far. I’m saving the bugs in my food-resource test for last…

Need to think about the ids..do I want to insert ids or objects?? Having trouble with inserts and a hibernate constraint error.

I’m changing the relationship between owners and contacts so that there can be a set of contacts, many to one… Still not done with DAOs…

(29 hrs so far) 6p-7

Updating timelog, dealing with git problems, it says I have to move or remove journal.docx