*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.