

# Food-For-You Project Plan

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3--2023 v2

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## 1. Project Plan Revision History

Date	Author	Description
2-16-2023	Everyone	Created the initial document.
2-23-2023	jp	Started on first version v1
3-5-2023	jp	Updated the progress made during implementation phase
3-11-2023	jp	Modified the document based on the professor's feedback
3-12-2023	Everyone	Finished final version

## 2. Management Plan

### 2.1 Team Organization

Our team consists of five members, Krishna and Jerry on the Food Bank Storage End, and Katherine, Lauren, and Linnea on the Food Interface Design End. The Food Bank Storage

End members are responsible for creating a database storing all items available in each food bank and integrating that database into each module of the system. The Food Interface Design End members will create separate user interfaces designed to satisfy each user group: the donors, the receivers, and the food bank staff.

## 2.2 Work Distribution

- **Jerry Pi:**
  - Food Resource Database Developer/Food Bank Storage End member
  - Responsible for loading the food item storage information from each food bank into a SQL database named Food Resource Database
  - Help other Food Bank Storage End members to complete their tasks
- **Krishna Patel:**
  - Food Resource Database Integration Developer/Food Bank Storage End member
  - Responsible for setting up and integrating the Food Resource Database into each other module, mainly the interfaces for each user group created by the Food Interface Design End members.
  - Help other Food Bank Storage End members to complete their tasks
- **Linnea Gilius:**
  - Food Donor Interface Developer/Food Interface Design End member
  - Responsible for creating a Donor Interface that will allow donor users to view and search for items stored in each food bank. In addition, create a feature to display the items that are in need by each food bank within the Donor Interface.
- **Katherine Smirnov:**
  - Food Bank Staff Interface Developer/Food Interface Design End member
  - Responsible for creating the Food Bank Staff Interface that will allow an administrator user to update the current values in the database
- **Lauren Van Horn:**
  - Food Recipient Interface Developer/Food Interface Design End member
  - Responsible for creating the Food Recipient Interface that will allow a receiver user to locate which food pantries have the items they need, filtering by item categories and food bank locations

## 3. Monitoring and Reporting

### 3.1 Task Tracking

Each group member will be assigned with an initial subgroup(Food Interface Design End or Food Bank Storage End) and a specific task/module that can be worked on independently. Group members should share their progress or completion of tasks as well as how they worked through a discord channel, and then discuss them during weekly group meetings. Beyond that, individual efforts such as how many total hours were spent for a week and the status of the current task will be recorded in an task-tracking excel sheet(refer to section 7.2 for an actual instances) that is accessible to everyone in the group. A Gannt chart will also be used to track

group progress(refer to section 5.2) where the task-tracking sheet will contain more details on the individual effort.

### 3.2 Meetings

Every week, there will be two in-person group meetings hosted on Thursday and Sunday. A meeting record will be written on what occurred in each meeting, including who showed up, what was the agenda, what was discussed, and what was decided. During the meeting, the group will first check each task-tracking excel sheet to evaluate if each task is on the track. Then, each group member can share their progress and difficulties with their tasks. The group will then discuss solutions to the current issues and consider alternative possibilities. After each issue is fully addressed or has to be pushed to another meeting, the group will set up the agenda for the next meeting and finish writing the meeting record. Additional meetings will be hosted upon member requests, and the notification of those meetings will be sent through discord.

### 3.3 Discord Policies

1. Each member will be notified 1-day before each group meeting, including the temporary meetings. Members are responsible to check the group channel daily and respond to meeting notifications.
2. The topics that will be addressed in the meeting will be decided every Wednesday and Saturday. All members are welcome to add new topics that they would like to discuss with the group.
3. All members should be respectful in the communication channel. All verbal harassment will be strictly prohibited.
4. After each meeting, the meeting record of what was being discussed will be written and posted on the discord channel. All members who were not able to participate in the meeting are responsible to read the meeting record.
5. Between each meeting, development problems can be posted to the group channel. Members who are being asked specific questions should respond in less than 24 hours.

## 4. Milestones

- ☐ Create initial Project Proposal - Everyone, 2/19
  - ☐ Create Project Repository on Github - 2/19
  - ☐ Prepare Interview Questions - Everyone 2/19
  - ☐ Schedule Interviews - Everyone 2/20
  - ☐ Complete Interview - Everyone 2/25
- ☐ Complete Food Resource Database Module 3/5
- ☐ Complete Food Bank Staff Interface 3/5
- ☐ Complete Food Donor Interface 3/5
- ☐ Complete Food Recipient Interface 3/5
- ☐ Create Test Cases - Everyone 3/5
- ☐ Integrate Database module which each of the user interface modules - Everyone 3/7

- ☐ Write Documentation: Updated SRS, SDS, Project Plan, README, Programmer's Documentation, Installation Instruction, User Documentation - Everyone 3/10
- ☐ Complete Administrator Interface 3/12
- ☐ Create and practice presentation - Everyone 3/12
- ☐ Submit Final Project - Everyone 3/12
- ☐ Present Project in class - Everyone 3/13

## 5. Build Plan

### 5.1 Project Breakdown

The project will be done in two subgroups, the Food Interface Design End, and the Food Bank Storage End. Both subgroups will start on their tasks independently and simultaneously.

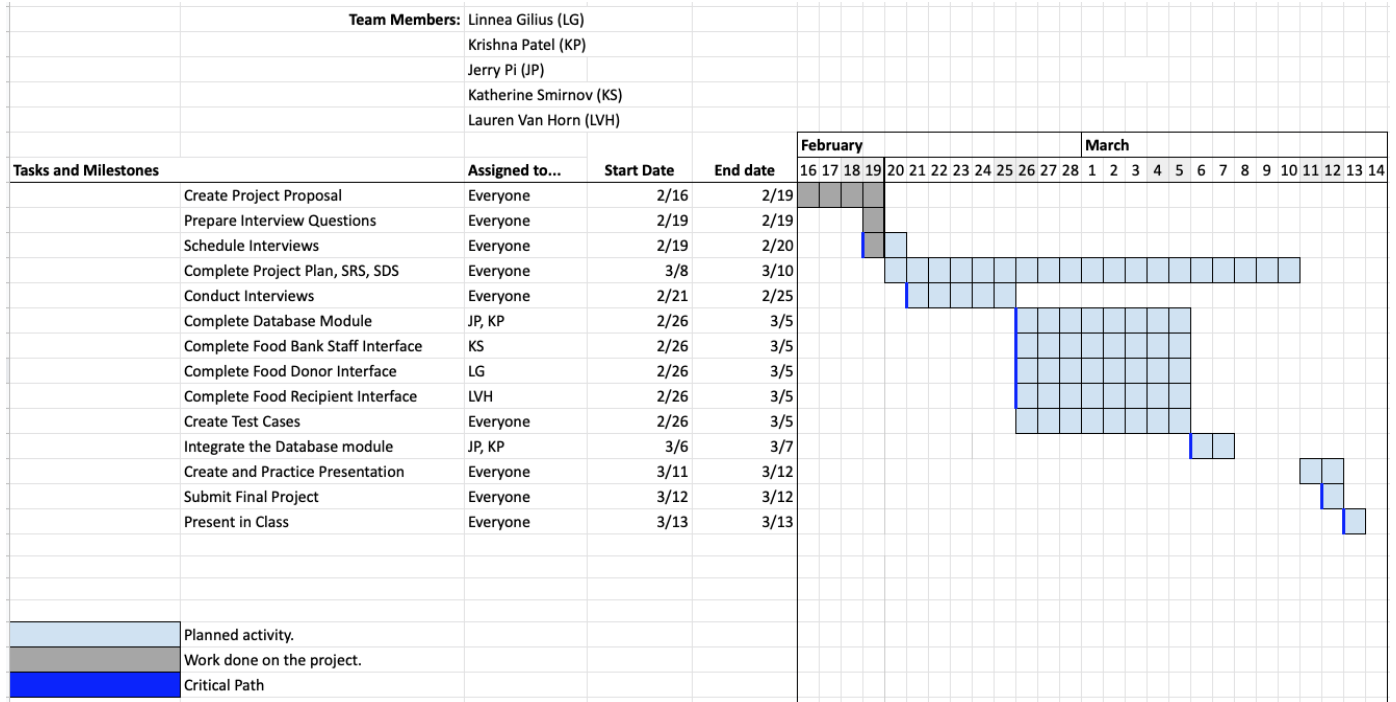
The Food Bank Storage End's major task is to collect and store the information of all food items stored in each food bank located in Lane County. The subgroup members will need to first compile the food storage data in each food bank into a food data file using a specific format (a list of CSV files were created during the actual implementation phase). Next, the Food Resource Database Module will be created using SQL on the ix-dev server. There should also be a setup script that automatically connects to the database server. Lastly, the Food Bank Storage End members should input all food data files into the database.

Simultaneously, the Food Interface Design End members will start on the design of the interfaces for each user group. The members of the Food Bank Storage End will each implement one of the four interfaces, which are the Food Bank Staff Interface, the Food Donor Interface, the Food Recipient Interface, and the Administrator interface. The food staff user group, will have two different interfaces, the Food Bank Staff Interface and the Administrator interface.

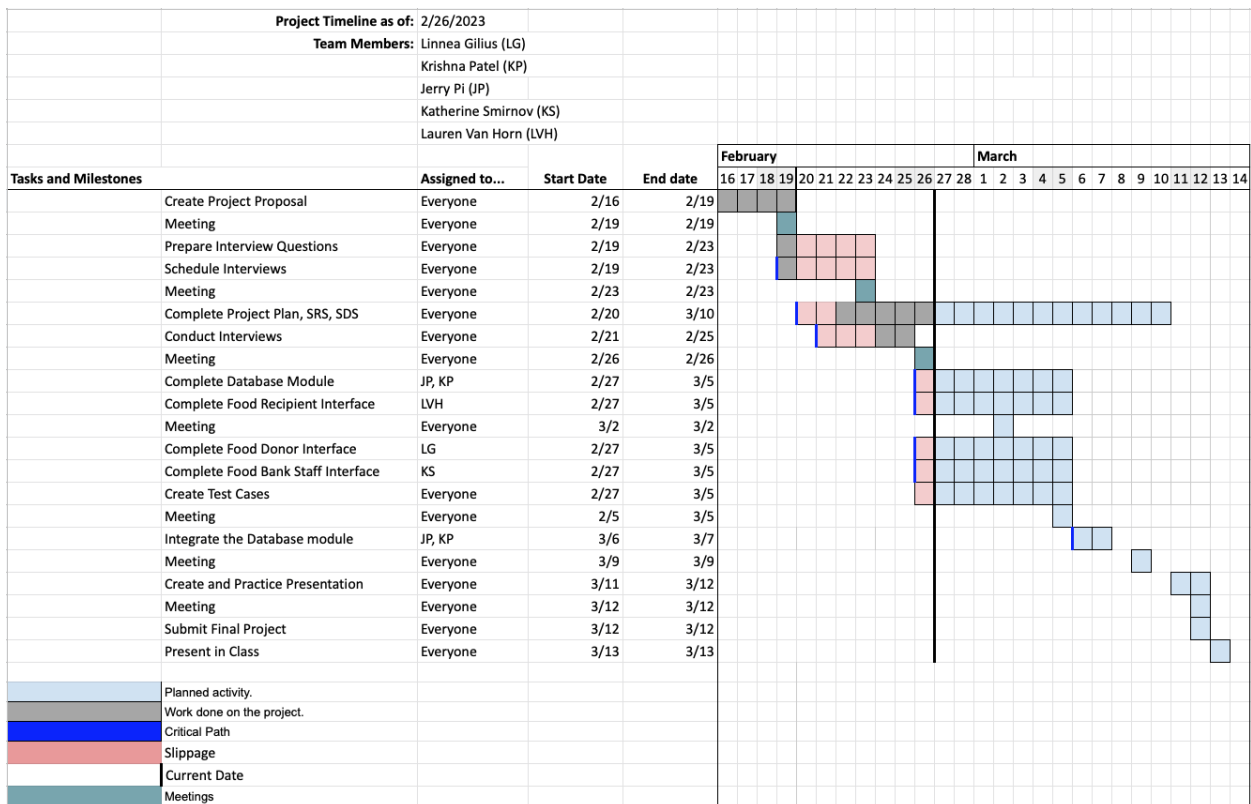
After both subgroups are completed with their tasks, the Food Bank Storage End members will integrate the Food Resource database into each user group interface module. Then, the source code from each subgroup will be merged and tested into a final version of the project.

### 5.2 Schedule

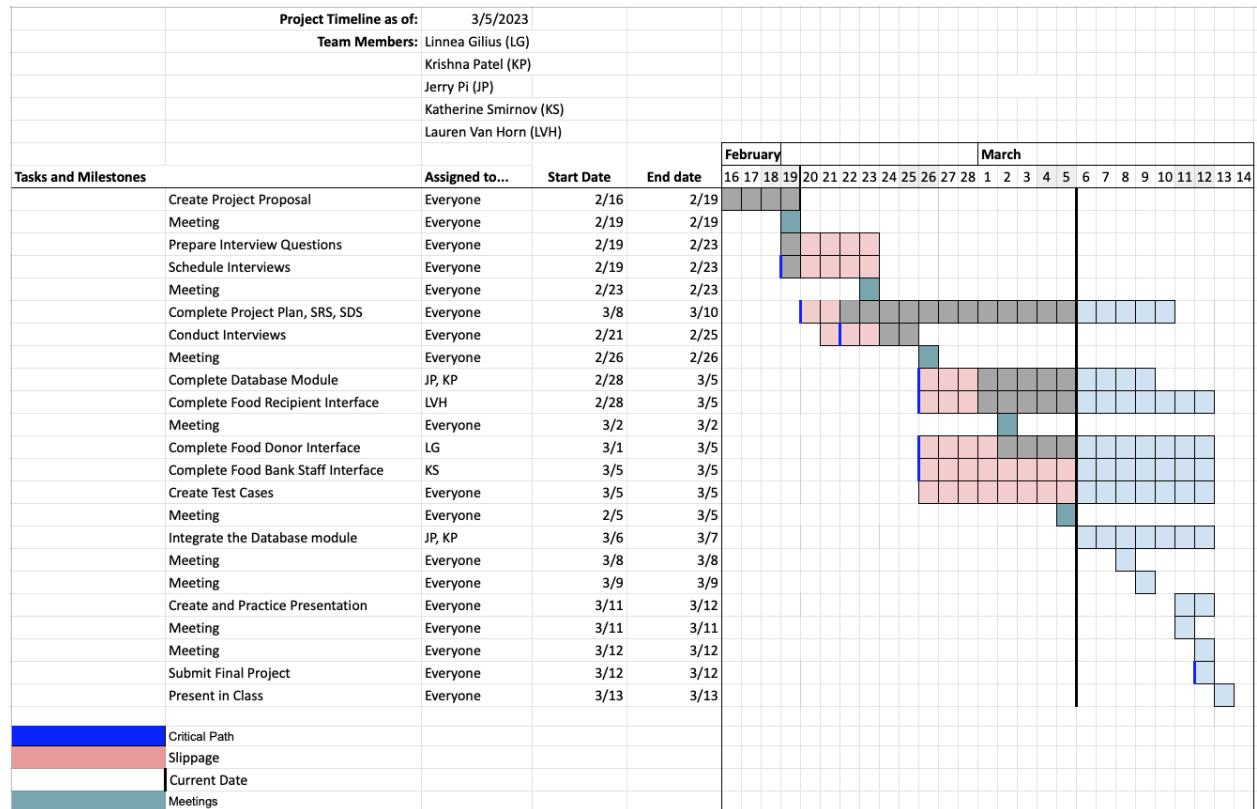
The project schedule is represented by the Gantt charts below and will be updated upon progress during the implementation phase. The updated date is mentioned below each chart.



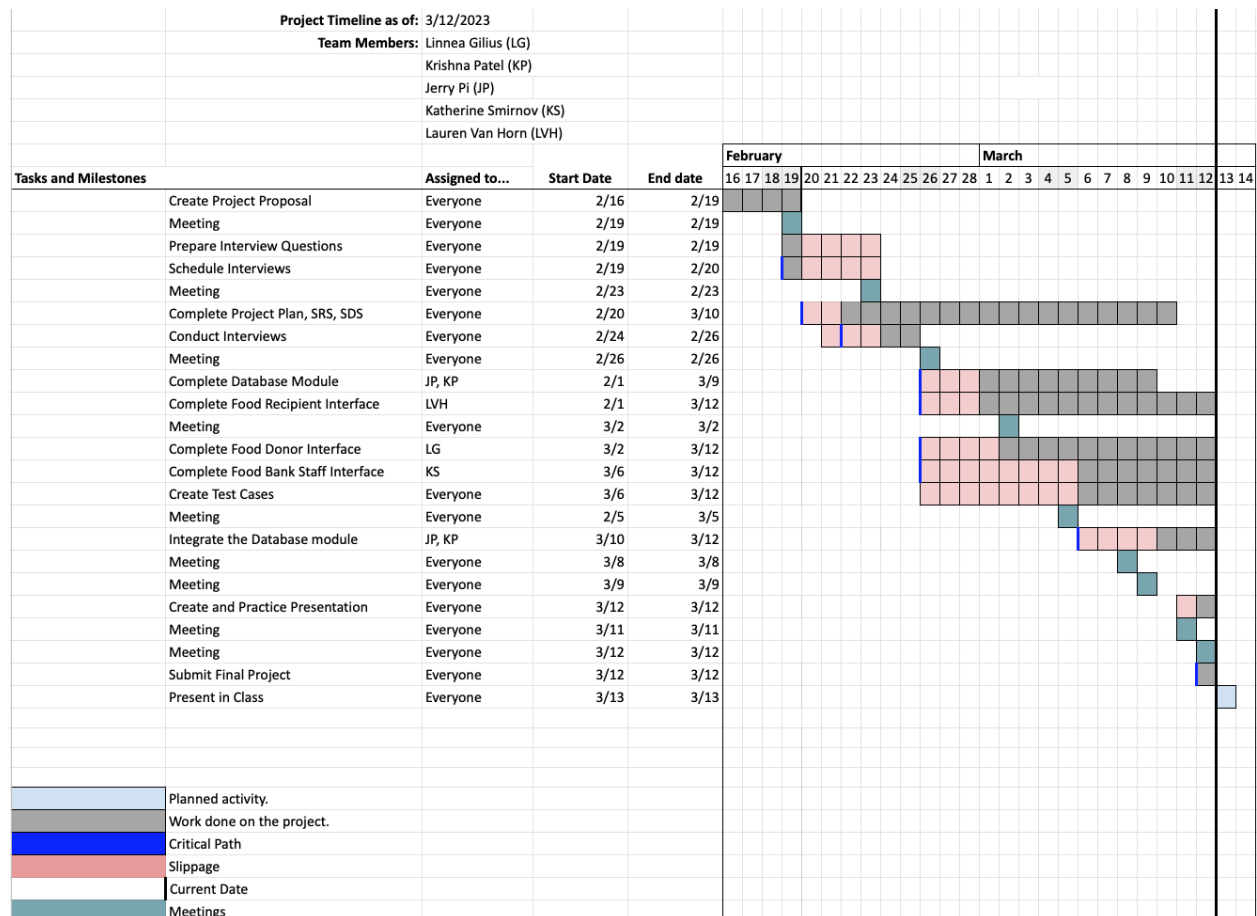
Food-For-You Gantt Chart Version 1 - February 19th, 2023



Food-For-You Gantt Chart Version 2 - March 26th 2023



*Food-For-You Gantt Chart Version 3 - March 5th, 2023*



Food-For-You Gantt Chart Version 4 - March 12th, 2023

## 6. Rationale

### 6.1 Build Plan Reasonings

In this project, it is essential to have the data formatted into a standard convention. Thus, we will have the two Food Bank Storage End members first work on converting the food storage data into a data file. We chose to input the data into a SQL database because it is the most efficient method to select and filter for a certain food item and their storage information with SQL queries since all food items have similar attributes.

While the Food Bank Storage End members work on creating the Food Resource Database Module, the Food Interface Design End members could start on the implementation of the interfaces for each user group. We are splitting into two subgroups because the only time the database module has to interact with the user interfaces is during the integration phase, which will require both the database Module and all the user interfaces to be completed, having two simultaneous subgroups are most likely to finish both parts at the same time.

Another decision we made during the implementation phase is to create two separate interfaces for the food bank staff user group. The reason for that is that we want to allow regular staff to move/update the food items in the food bank without out seeing the adding/modifying food bank applications that should only be used by a food bank administrator.

## **6.2 Risks and Risk Reduction**

The primary risk of our build plan is that since each subsystem is implemented independently and then integrated together, the delay due to technical difficulties on one system could negatively affect the implementation and testing of other subsystems, resulting in the delay of the project. The lack of experience with tools such as creating a SQL database will also increase the chance of encountering such risks. The second risk comes from getting the data from different banks. Because we didn't know what our initial data would look like and what format they are in, it is possible that converting the raw data into a standard convention file is more difficult than our expectation.

Our risk reduction strategy to reduce the delay of projects caused by technical difficulties is to start to get used to the tools that we will use and start on each milestone as early as possible. We will also keep close track of all the problems we encounter during each implementation stage and report them on the task-tracking excel sheets. The group will discuss and solve these problems together during weekly meetings. All group members should prioritize these problems in order to guarantee that each milestone is achieved at the designated time. Regarding the risks about the unknown initial data, we scheduled several interviews with both the food bank staff and some of the donor and receiver user classes. We aim to learn about their experiences to get a better idea of what kind of data to expect and to prepare for.

# **7. Meeting Notes and Task Tracking**

## **7.1 Meeting Notes**

**Sunday February 19th 10:00 AM - 12:00 PM**

**Attendance:** Linnea Gilius, Krishna Patel, Jerry Pi, Katherine Smirnov, Lauren Van Horn

**Location:** Knight Library room 123

**Agenda/Decisions:**

- Ideate interview questions
  - Follow up with the food bank and other potential Interviewees



- Finish the initial Project Plan
  - Fill in the Gantt chart with more complete tasks and names

#### **Member Progresses and Tasks:**

- Jerry Pi
  - No previous tasks
  - Next task: research the food banks in Lane County
- Krishna Patel
  - No previous tasks
  - Next task: interview a food bank staff
- Linnea Gilius
  - No previous tasks
  - Next task: record and help Krishna with his interview
- Lauren Van Horn
  - No previous tasks
  - Next task: interview a food donor
- Katherine Smirnov
  - No previous tasks
  - Next task: record and help Lauren with her interview

#### **Thursday February 23rd 6:00 PM - 8:00 PM**

**Attendance:** Linnea Gilius, Krishna Patel, Jerry Pi, Katherine Smirnov, Lauren Van Horn

**Location:** Price Science Library B015

#### **Agenda/Decisions:**

- Go over the interview results
- Discuss SRS/SDS/Project Plan
- Assign the write up to each member
- Finish all write up and review together on Sunday's meeting

#### **Member Progresses and Tasks:**

- Jerry Pi
  - Still working on: research the food banks in Lane County

- Next task: write up the project plan
- Krishna Patel
  - Completed: Interviewed a food bank staff
  - Next task: write up SDS with Lauren
- Linnea Gilius
  - Completed: Record and help Krishna with his interview
  - Next task: Write up SRS with Katherine
- Lauren Van Horn
  - Completed: interview a food donor
  - Next task: write up SDS with Krishna
- Katherine Smirnov
  - Completed: record and help Lauren with her interview
  - Next task: write up SRS with Linnea

**Sunday February 26th 10:00 AM - 12:00 PM**

**Attendance:** Linnea Gilius, Krishna Patel, Jerry Pi, Katherine Smirnov, Lauren Van Horn

**Location:** Knight Library room 123

**Agenda/Decisions:**

- review and integrate SRS/SDS/Project Plan
  - validate consistencies between files
- review Professor Hornof's feedback for Project 1
- Assign modules

**Member Progresses and Tasks:**

- Jerry Pi
  - Completed: research the food banks in Lane County
  - Completed: write up the project plan
  - Next task: sketch out the structure of the database module with Krishna
- Krishna Patel
  - Completed: write up SDS with Lauren
  - Next task: sketch out the structure of the database module with Jerry

- Linnea Gilius
  - Completed: write up SRS with Katherine
  - Next task: sketch out the structure of the food donor interface
- Lauren Van Horn
  - Completed: write up SDS with Krishna
  - Next task: sketch out the structure of the food recipient interface
- Katherine Smirnov
  - Completed: write up SRS with Linnea
  - Next task: sketch out the structure of the food bank staff interface

**Thursday March 2nd 6:00 PM - 8:00 PM**

**Attendance:** Krishna Patel, Jerry Pi, Katherine Smirnov, Lauren Van Horn

- Linnea Gilius on Zoom

**Location:** Price Science Library B021 and Zoom

**Agenda/Decisions:**

- Go over database structure
- Ideate structure of Interfaces
- Go over consistencies between modules
- Important new decision: split up the staff interface module into two separate interfaces. One interface for regular food bank staff, and one interface for food bank system administrators.

**Member Progresses and Tasks:**

- Jerry Pi
  - Completed: sketch out the structure of the database module with Krishna
  - Next task: finish creating the database module and its associated tables
- Krishna Patel
  - Completed: sketch out the structure of the database module with Jerry
  - Next task: discuss staff interface module with Katherine and start on the new administrator interface
- Linnea Gilius
  - Completed: sketch out the structure of the food donor interface

- Next task: keep working on the food donor interface
- Lauren Van Horn
  - Completed: sketch out the structure of the food recipient interface
  - Next task: keep working on the food recipient interface
- Katherine Smirnov
  - Completed: sketch out the structure of the food bank staff interface
  - Next task: discuss the existing staff interface with Krishna and work on the new staff interface

### **Sunday March 5th 10:00 AM - 12:00 PM**

**Attendance:** Linnea Gilius, Krishna Patel, Jerry Pi, Katherine Smirnov, Lauren Van Horn

**Location:** Price Science Library room B017

#### **Agenda/Decisions:**

- Update each other on progress
- Update and discuss the updates in the database
- Discuss for new requirements
- Decide and add in new features/functions
- Important decision: now adding a new *hours* table into the database which requires modification in all interfaces.

#### **Member Progresses and Tasks:**

- Jerry Pi
  - Completed: finish creating the database module and its associated tables (with the old expectations)
  - Next task: design and create the new *hours* table in the database
- Krishna Patel
  - Completed: discuss staff interface module with Katherine and start on the new administrator interface
  - Next task: keep working on the administrator interface
- Linnea Gilius

- Completed: keep working on the food donor interface
- Next task: complete the food donor interface into a testable condition
- Lauren Van Horn
  - Completed: keep working on the food recipient interface
  - Next task: complete the food recipient interface into a testable condition
- Katherine Smirnov
  - Completed: discuss the existing staff interface with Krishna and work on the new staff interface
  - Next task: keep working on the new staff interface

### **Thursday March 9th 6:00 PM - 9:00 PM**

**Attendance:** Linnea Gilius, Krishna Patel, Jerry Pi, Katherine Smirnov, Lauren Van Horn

**Location:** Price Science Library B017

### **Agenda/Decisions:**

- Update each other on progress
- Introduce the new *hours* table
- Discuss what things are implemented differently compared to the initial documentations
- Important Decision: now adding a new helper file `untilffy.py` that automatically connects to the database and makes it easier for the user to connect to personal databases (instead of having them modifying the source files)

### **Member Progresses and Tasks:**

- Jerry Pi
  - Completed: design and create the new *hours* table in the database
  - Next task: fix and update the project plan with major changes
- Krishna Patel
  - Completed: keep working on the administrator interface
  - Next task: adapt the administrator interface with the *hours* table
- Linnea Gilius
  - Completed: complete the food donor interface into a testable condition

- Next task: adapt the food donor interface with the *hours* table
- Lauren Van Horn
  - Completed: complete the food recipient interface into a testable condition
  - Next task: adapt the food recipient interface with the *hours* table
- Katherine Smirnov
  - Completed: keep working on the new staff interface
  - Next task: create the helper file *untilffy.py*

### **Sunday March 12th 10:00 AM - 7:55 PM**

**Attendance:** Linnea Gilius, Krishna Patel, Jerry Pi, Katherine Smirnov, Lauren Van Horn

**Location:** Knight Library room 123

#### **Agenda/Decisions:**

- Update each other on progress
- Finalize and test the interfaces
- Update the documentation
- Practice the presentation

#### **Member Progresses and Tasks:**

- Jerry Pi
  - Completed: fix and update the project plan with major changes
  - Next task: write up the database related instructions in the Programmer Documentation and the User Documentation. Revise Project Plan.
- Krishna Patel
  - Completed: adapt the administrator interface with the *hours* table
  - Next task: Comment source code and write up the admin interface related instructions in the Programmer Documentation and the User Documentation. Revise SDS.
- Linnea Gilius
  - Completed: adapt the food donor interface with the *hours* table

- Next task: Comment source code and write up the food donor interface related instructions in the Programmer Documentation and the User Documentation. Write up readme.txt. Revise SRS.
- Lauren Van Horn
  - Completed: adapt the food recipient interface with the *hours* table
  - Next task: Comment source code and write up the food recipient interface related instructions in the Programmer Documentation and the User Documentation. Revise SDS.
- Katherine Smirnov
  - Completed: create the helper file *untilffy.py*
  - Next task: Comment source code and write up the staff interface related instructions in the Programmer Documentation and the User Documentation. Revise SRS.

## 7.2 Task Tracking Sheet

Tasks and Assignment Breakdown												
Group: Food-For-You												
Team Members (and initials): Linnea Gillus(lg), Krishna Patel(kp), Jerry Pi(jp), Katherine Smirnov(ks), Lauren Van Horn(lvh)												
Date this was last updated: 3/12/23												
Last updated by (whom): jp												
Grouping	Task or Milestone (with an objectively verifiable completion)	Status	Assigned to (whom)	Date Assigned	Anticipated Time (hours)	Date Due	Date Completed	Completed by (whom)	Time Spent (hours)	Confirmed Completed by (whom)	Date Confirmed Complete	Notes
Week 1	Establish weekly meeting schedule.											
	Post on shared repository.	completed	kp	2/13/23	1	2/15/23	2/14/23	kp	1	ks	2/14/23	
	Write up initial Project Plan	completed	jp	2/13/23	2	2/21/23	2/21/23	jp	4	kp,ks,lvh,lg	2/21/23	
	Write up initial SRS	completed	kp, ks	2/13/23	3	2/21/23	2/21/23	kp, ks	8	jp, lg,lvh	2/21/23	
	Write up initial SDS	completed	lg,lvh	2/13/23	3	2/21/23	2/21/23	lg,lvh	10	jp,kp,ks	2/21/23	
	Group meeting on Sunday	completed	Everyone	2/15/23	2	2/19/23	2/19/23	Everyone	2	Everyone	2/19/23	
	Prepare interview questions	completed	Everyone	2/19/23	1	2/19/23	2/19/23	Everyone	2	Everyone	2/19/23	
Week 2												
	Meeting on Thursday	completed	Everyone	2/20/23	2	2/23/23	2/23/23	Everyone	2	Everyone	2/23/23	
	Write up Project Plan	completed	jp	2/20/23	15	3/8/23	3/10/23	jp, Everyone	10	Everyone	3/12/23	
	Write up SRS	completed	kp,ks	2/20/23	15	3/8/23	3/10/23	kp, ks, Every	10	Everyone	3/12/23	
	Write up SDS	completed	lg,lvh	2/20/23	15	3/8/23	3/10/23	lg, lvh, Every	11	Everyone	3/12/23	
	Meeting on Sunday	completed	Everyone	2/23/23	2	2/26/23	2/26/23	Everyone	2	Everyone	2/26/23	
Week 3												
	Meeting on Thursday	completed	Everyone	2/28/23	2	3/2/23	3/2/23	Everyone	2	Everyone	3/2/23	
	Create initial database module	completed	jp	3/2/23	10	3/5/23	3/5/23	jp	12	kp	3/5/23	
	Create initial donor interface	completed	lg	3/2/23	10	3/5/23	3/5/23	lg	10	lvh	3/5/23	
	Create initial recipient interface	completed	lvh	3/2/23	10	3/5/23	3/5/23	lvh	10	lg	3/5/23	
	Create initial staff interface	completed	ks	3/2/23	10	3/5/23	3/9/23	ks	15	kp	3/9/23	change in requirements. New tasks are created.
Week 4	Meeting on Sunday	completed	Everyone	3/2/23	2	2/26/23	2/26/23	Everyone	2	Everyone	2/26/23	
	Meeting on Thursday	completed	Everyone	2/28/23	2	3/9/23	3/2/23	Everyone	2	Everyone	3/2/23	
	Apply hours table to the database	completed	jp	3/5/23	2	3/9/23	3/9/23	jp	12	Everyone	3/9/23	
	Complete donor interface	completed	lg	3/5/23	10	3/9/23	3/9/23	lg	10	Everyone	3/9/23	
	Complete recipient interface	completed	lvh	3/5/23	10	3/9/23	3/9/23	lvh	10	Everyone	3/9/23	
	Complete initial staff interface	completed	ks	3/5/23	10	3/9/23	3/9/23	ks	15	Everyone	3/9/23	
	Create and complete admin interface	completed	kp	3/6/23	30	3/12/23	3/12/23	kp	25	Everyone	3/12/23	
	Meeting on Sunday	completed	Everyone	3/9/23	8	3/12/23	3/12/23	Everyone	10	Everyone	3/12/23	
	Programmer Documentation write up	completed	Everyone	3/9/23	4	3/12/23	3/12/23	Everyone	6	Everyone	3/12/23	
	User Documentation write up	completed	Everyone	3/9/23	3	3/12/23	3/12/23	Everyone	3	Everyone	3/12/23	
	Readme.txt write up	completed	kp	3/9/23	1	3/12/23	3/12/23	kp	1	Everyone	3/12/23	
	Insatillation instructions write up	completed	jp,kp	3/9/23	2	3/12/23	3/12/23	jp,kp	3	Everyone	3/12/23	
	Revision project plan	completed	jp,lvh	3/9/23	2	3/12/23	3/12/23	jp,lvh	3	Everyone	3/12/23	
	Revision SRS	completed	lg,ks	3/9/23	3	3/12/23	3/12/23	lg,ks	4	Everyone	3/12/23	
	Revision SDS	completed	kp,lvh	3/9/23	3	3/12/23	3/12/23	kp,lvh	3	Everyone	3/12/23	
	Practice presentation	completed	Everyone	3/9/23	2	3/12/23	3/12/23	Everyone	2	Everyone	3/12/23	