Vitamin Project

TEAM Vitamin-19 BHI 504, Spring 2019

Vitamin Project



- TEAM: Vitamin-19
 - With Heather Rohr

- BHI 504
 - Systems Design, Integration, Safety, & Security
 - Online graduate course (SUNY Oswego)

Instructor Isabelle Bichindaritz, PhD, CPHIMS

Proposal: Goals and Ideas



- Create a web domain that could provide nutrition facts about vitamins and different foods that provided them.
 - Focus on Vegetables, Fruits, and Nuts for selections

 Possibilities of using Java script or other techniques in HTML to display doses recommended for each type of person.

Alternative suggestions



- A phone friendly application to remind patients every day to take their required vitamins or medicine.
- A patient could have also slide a "check" mark after taking the vitamin and receive notifications for refills after getting personalized by a patient.

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- However, the website was to be more likely to be made into a ready-to-use item.
- I was under the impression that I did not have the resources to make a workable application in the desired time period.

Possible people to design for

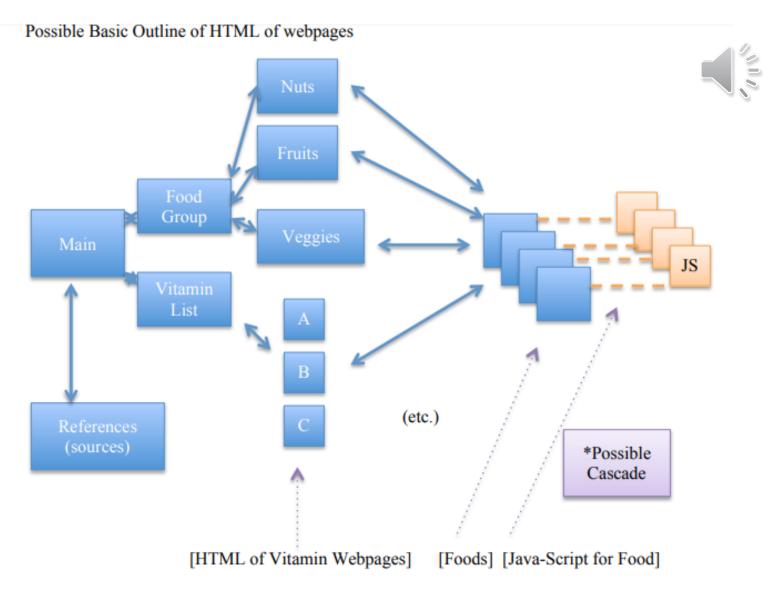


- Planned users should include causal people with an interest in healthy living and concern for vitamin intake.
- Interviews are available for all genders
 - Women would become a major focus
- The project may <u>not</u> be design for people whom are seriously ill. But the project would be available for users whom are interested in making some improvement in their health or observe useful information.

Examples of User Stories and suggestions

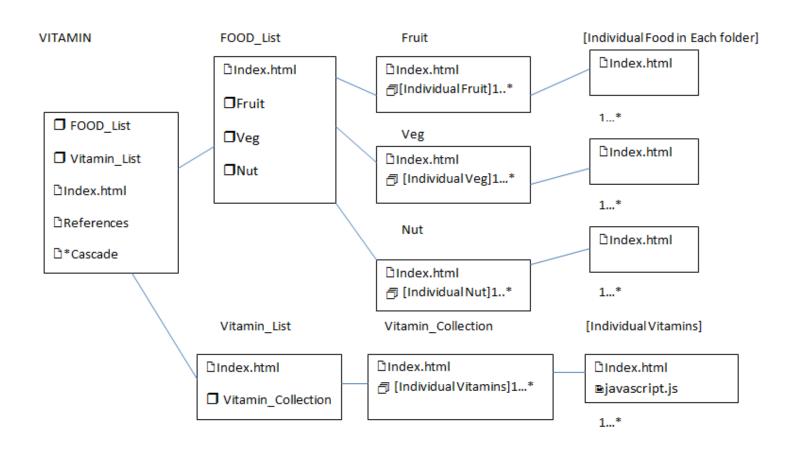


- I want to be able to figure out what vitamin deficiencies I have and what foods will help provide all the nutrients I need.
- It would be good to know which vegetables and fruit will give me the most energy because I like to workout.
- As an older woman with an older husband I am concerned about Alzheimer's and whether there are natural foods that help with memory loss.
- As a woman with high cholesterol, I would like to alternative supplements or additional foods to help lower my cholesterol. There are pills to help lower cholesterol but some have side effects or might be expensive.
- I would like to know the benefits of each vitamin.
- After hearing stories, I would like to know the details of risk when taking too much of a vitamin in general.



^{*}Each webpage should have a link to the Main Page

Another diagram for HTML Folders (created later)



Displaying doses



- Originally, if it was available on the website, testing should be done with both "Java-script" and external source (i.e. paper or a calculator), to make sure that the calculations are close to correct when measuring numbers with vitamins and users.
- The books referenced later, just displayed doses.
 - <select> tags were used instead for doses according to sex or pregnancy status.
- A "construction disclaimer" was to be made on the webpage if the Java-script options are not working or if the website was incomplete.

Vitamin C source in HTML

```
C:\Users\Heather Rohr\Desktop\BHI504\Vitamin-19Project\Vitamin\C\index.html - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
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  88
     -d<α>⊢
       Good for the immune system. Vitamin C makes collagen, an important protein in skin, cartilage, tend
  90
      <br/>
  91
      Vitamin C helps with immunity boost and resistance. It could reduce the duration of a cold.
  92
  93
       Vitamin could help with improving fertility with the men's cells and protect genetic material.
  94
      -
  95
     ±<σ>
  96
       <h4>Recommended Doses</h4>
     ⊢<form>
  98
     d<select id="gender">
 100
       <option value="No Selection">(Pick what descibes you the best.)
101
       <option value="adult"> An adult person in general : 60 mcg.</option>
       <option value="woman">An average woman over 18 : 75 IUs.</option>
102
103
       <option value="pregnant">A pregnant woman : 85 IUs.</option>
104
       <option value="man">An average man over 18 : 90 IUs.</option>
105
106
      -</select>
107
      -</form>
108 🛱<!--
109
       <input type ="button" onclick="giveRecommendedDose()" value="Display"/>
110
       111
      --->
112
      <a/><<
113
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Business ethics and facts



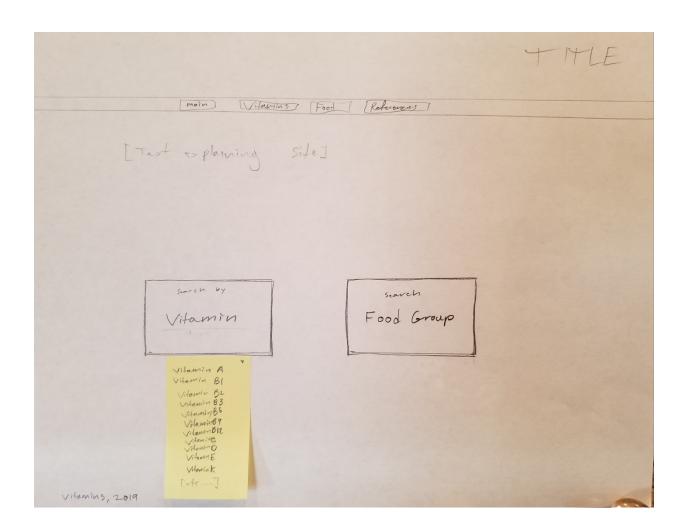
- Before supplying the information, the "facts" had to be verified with legitimate or relevant sources.
- Either at the foot of the webpage or a reference page on the website, the source of the information had to be acknowledged and provided.
- Unless the photographs and artwork were original, credits had to be given to the original source.
 - Photographs and artwork were <u>not yet</u> used for the project

Wireframes, paper prototyping, and rough drafts for website



Sketch of Main Page





Sketch of Vitamin List



Sketch of a Vitamin

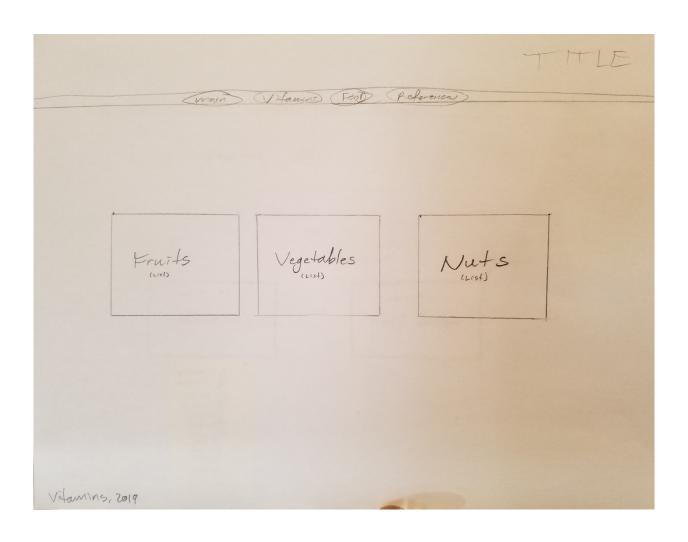
	TITLE
main > Maurin > [vilanin Name] [Vilanin Name] [Paragraph Description] [text] [New York of the mass of the state of the	
Important intake notes Listed here (text) Recommendations (* vitanized mineral bible) for most adults ### may Recommendations (* Roots) select edul lover 18 Then ## may Violence of their Program + ## may Program + ## may	
Vitamins, 2019	

Sketch of an individual food



main Taming	Food (References)
Foods > Fruit > Tomator Tomato Paragraph Rescription Vitamin Links: Vitamin A Vitamin ((17mg) Vitamin E (1.2 mg) potassium (259-13) calcium (7mg) magnesium (7mg)	I IN AGE

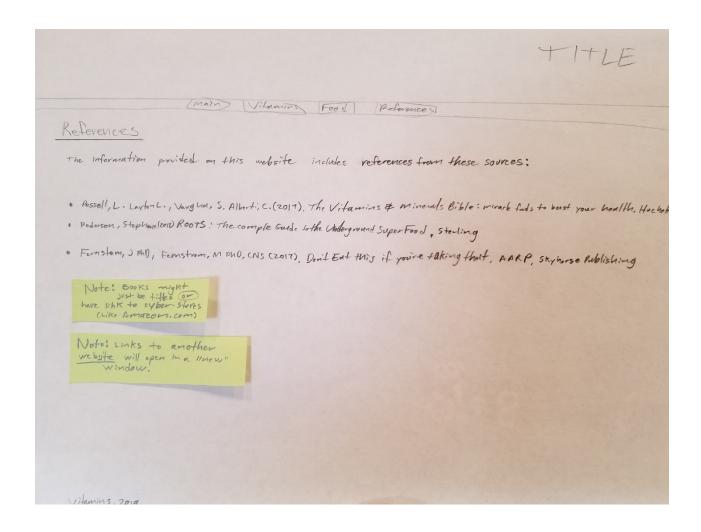
Sketch of Food Selection Page



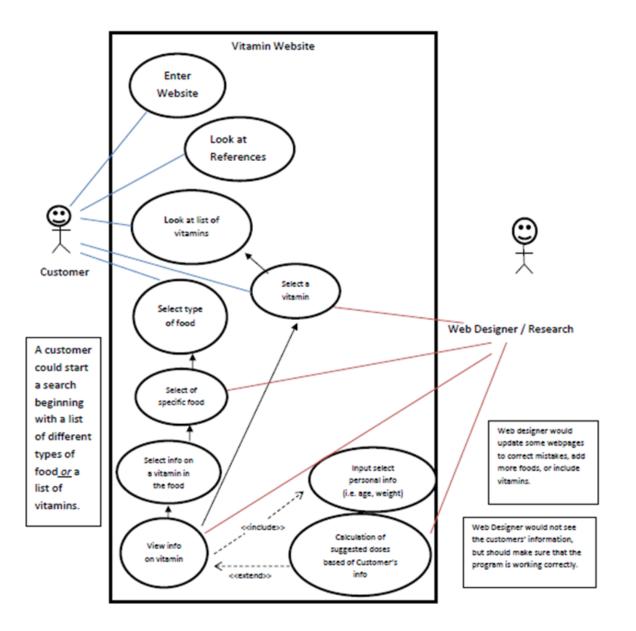
Sketch of Food List Page

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text text text text		
1 = X+ 1 = X+		
Vitamins, 2019		

Sketch of Reference page

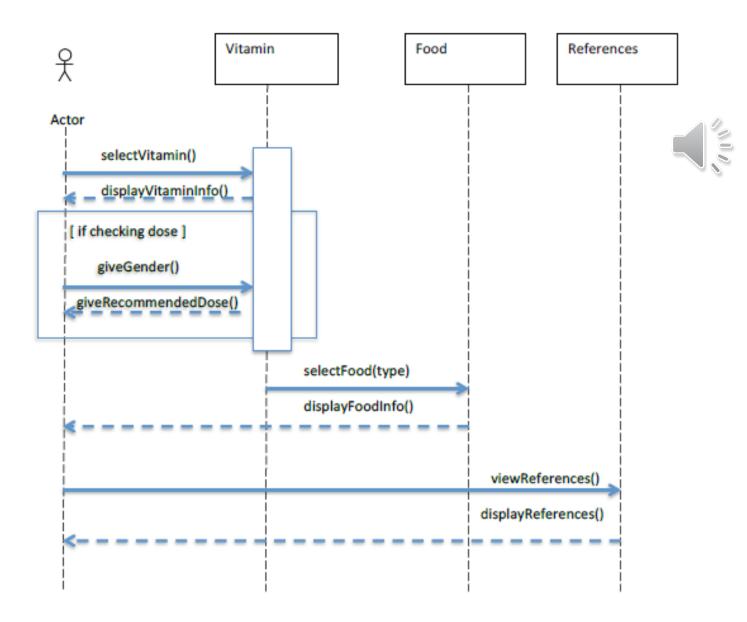


Use Case Diagram (Originally)

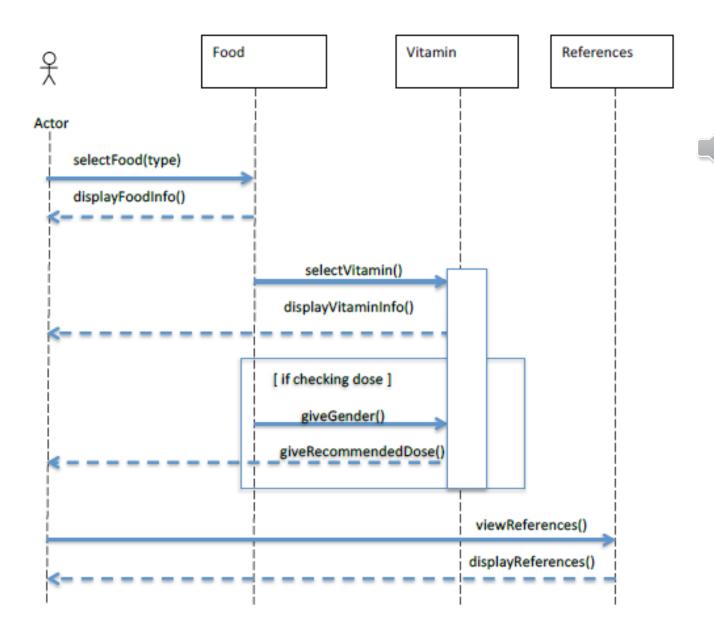




User Story (Sequence Diagram) Example One



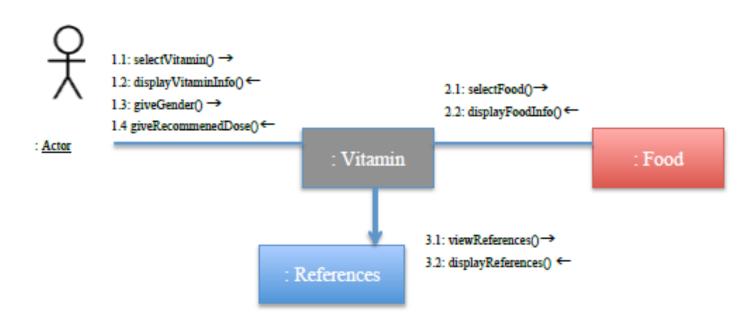
User Story (Sequence Diagram) Example 02



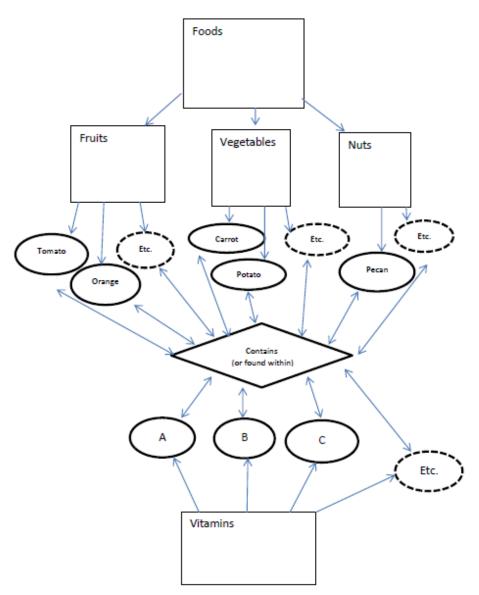
A one-page sequence diagram that represents the collaborations from when the application first starts up to just prior to the first user interaction.

Collaboration Diagram for Select Vitamin





Alternative diagram for the design





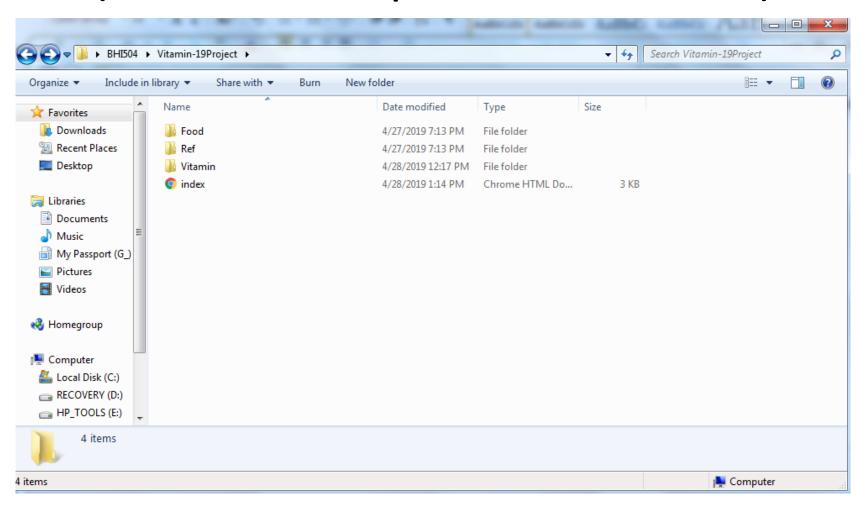
Building the website

Screenshots and examples

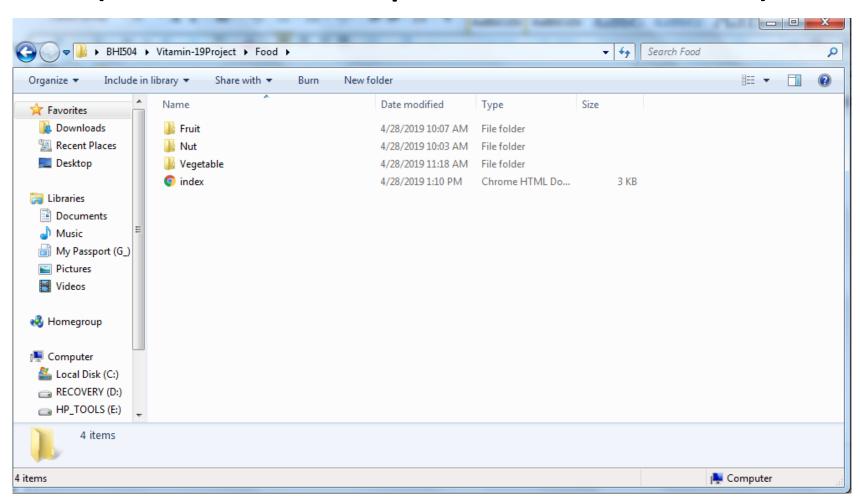
Web addresses

- eProfolio:
 - http://pi.cs.oswego.edu/~hrohr/coursework/BHI504/
- Vitamin Project Website:
 - http://pi.cs.oswego.edu/~hrohr/coursework/BHI504/
 Vitamin-19Project/

Examples of Folders holding HTML (which later upload to the web)

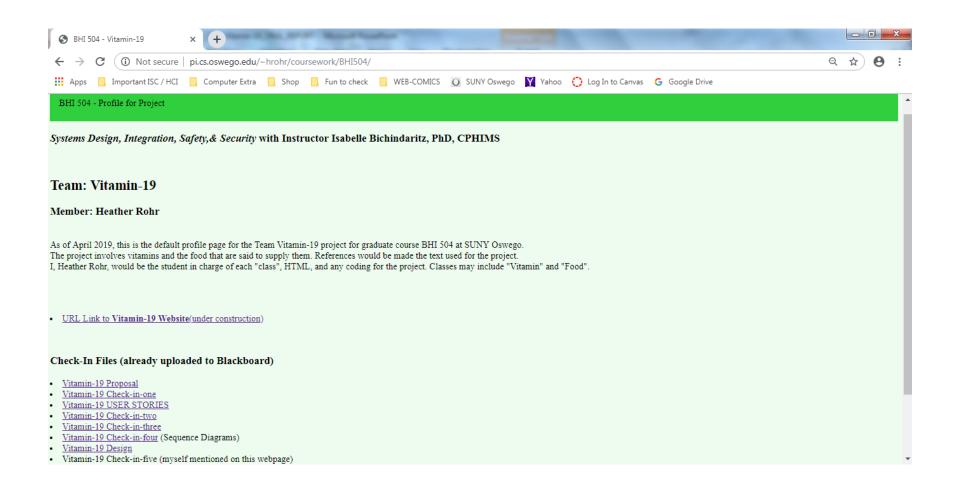


Examples of Folders holding HTML (which later upload to the web)



eProfolio for BHI 504





Vitamin Project – Main Page



Vitamin Project

Home Vitamin Food Reference

Website is still under construction!

WELCOME!

This an information domain site in regards to "Vitamins." Here one could find information on select vitamins, the benfits, and which foods provide them. Foods on thie site include Vegetables, Fruits, and Nuts.

Team: Vitamin-19

Member: Heather Rohr

NOTE: The site is part of a graduate school project. Books were used to provide information on the vitamins (check "Reference", if you wish to see the sources).

I, Heather Rohr, would be the student in BHI 504 (SUNY Oswego) charge of each "class", HTML, and any coding for the project. Classes could include "Vitamin" and "Food".

Vitamin List

Food List

"References" Page



References

Home Vitamin Food Reference

Website is still under construction!

Listed are books and sources referenced in the Vitiman Project.

- Russel, L., Layton, L., Vaugh, S., Alberti, C. (2017). The Vitamins & Minerals Bible: Miracle foods to boost your health. An Hachette UK Company.
- Pedersen, Stephanie. (2017). ROOTS: The Complete Guide to the UNDERGROUND SUPERFOOD. Sterling New York.
- Fernstrom, M. PhD CNS & Fernstrom, J. PhD. (2017). Don't Eat This If You're Taking That: The Hidden Risks of Mixing Food and Medicine. AARP Real Possibilities. Skyhorse Publishing.
- W3School.com

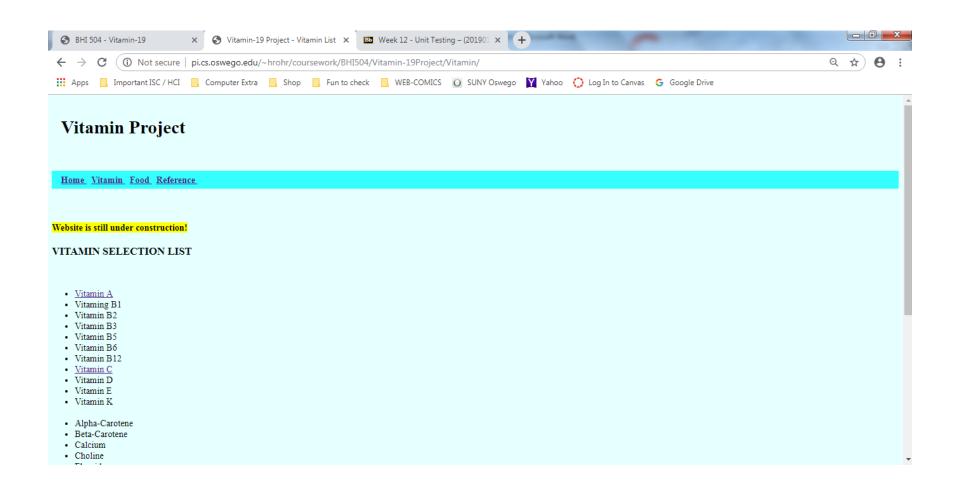
Vitamin-19 Project 2019

Main Page (let's look at the vitamin list)

Vitamin Project Home Vitamin Food Reference Website is still under construction! This an information domain site in regards to "Vitamins." Here one could find information on select vitamins, the benfits, and which foods provide them. Foods on thie site include Vegetables, Fruits, and Nuts. Team: Vitamin-19 Member: Heather Rohr NOTE: The site is part of a graduate school project. Books were used to provide information on the vitamins (check "Reference", if you wish to see the sources). I, Heather Rohr, would be the student in BHI 504 (SUNY Oswego) charge of each "class", HTML, and any coding for the project. Classes could include "Vitamin" and "Food". Food List

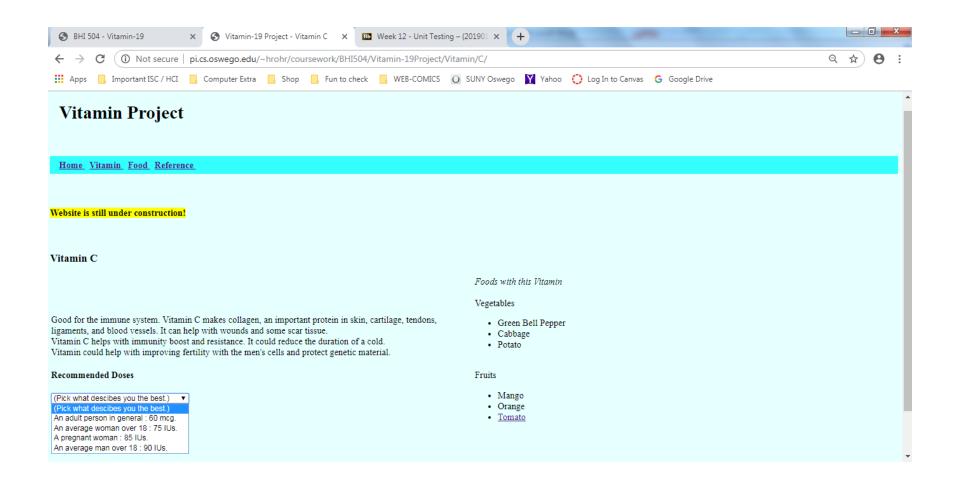
Vitamin List Page





Example: Vitamin C





Example: Vitamin C



Recommended Doses

(Pick what descibes you the best.)

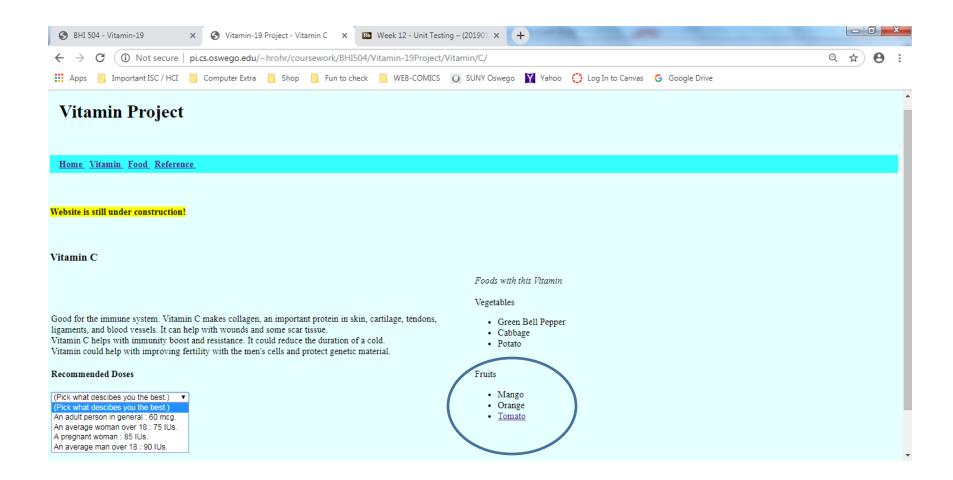
(Pick what descibes you the best.)

An adult person in general : 60 mcg. An average woman over 18 : 75 IUs.

A pregnant woman: 85 IUs.

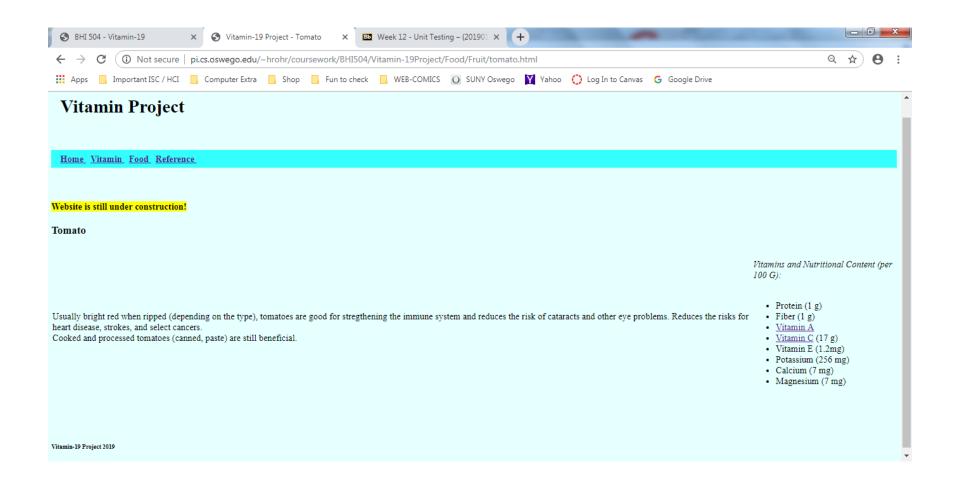
An average man over 18:90 IUs.

Example: Vitamin C



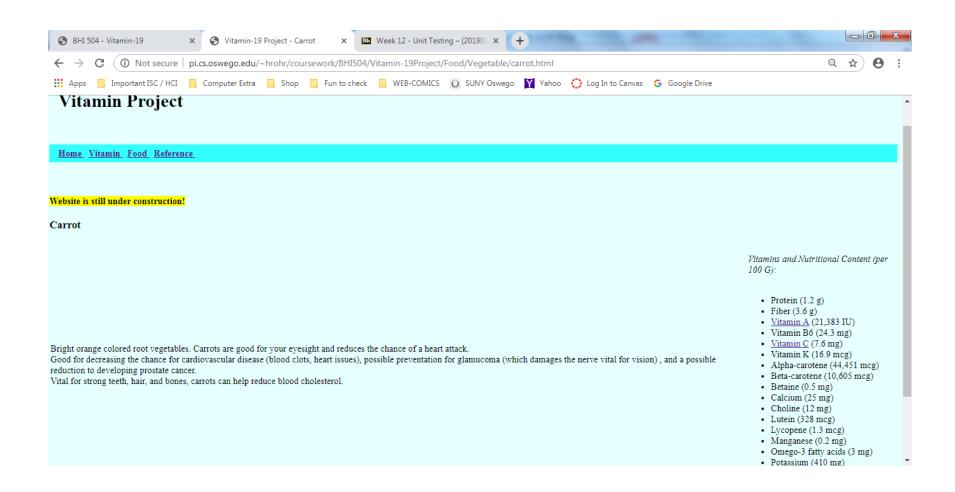
Example: Tomato



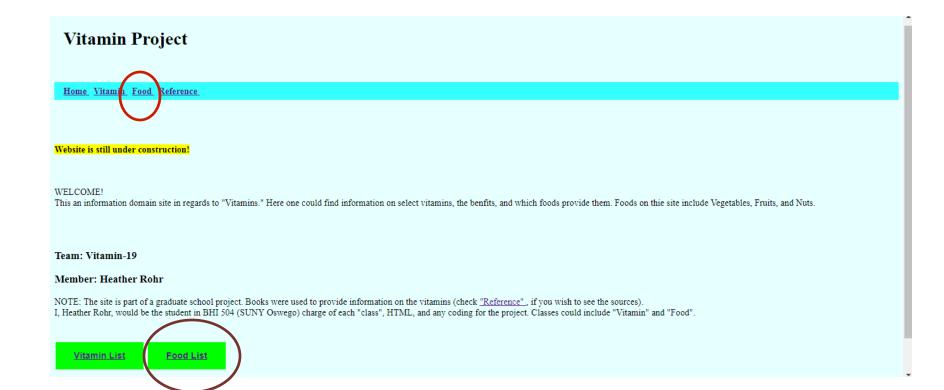


Example: Carrot



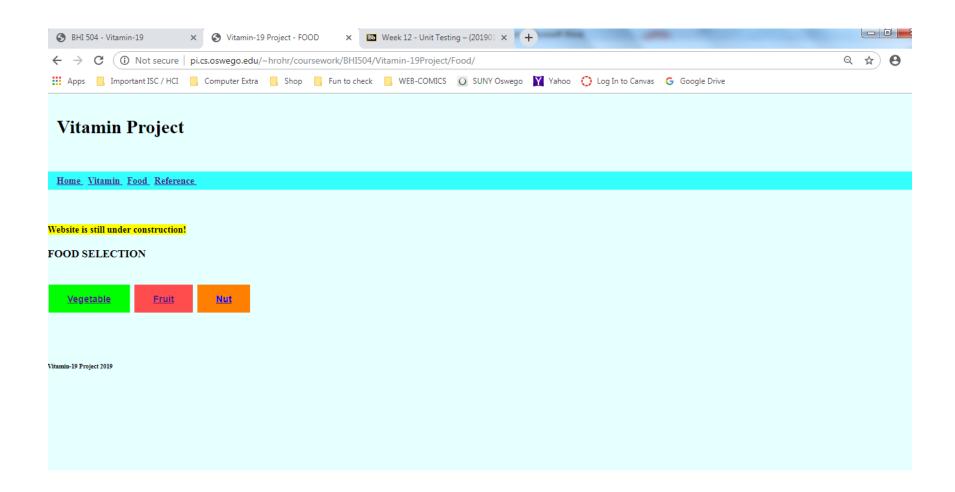


Main Page (let's look at the vitamin list)

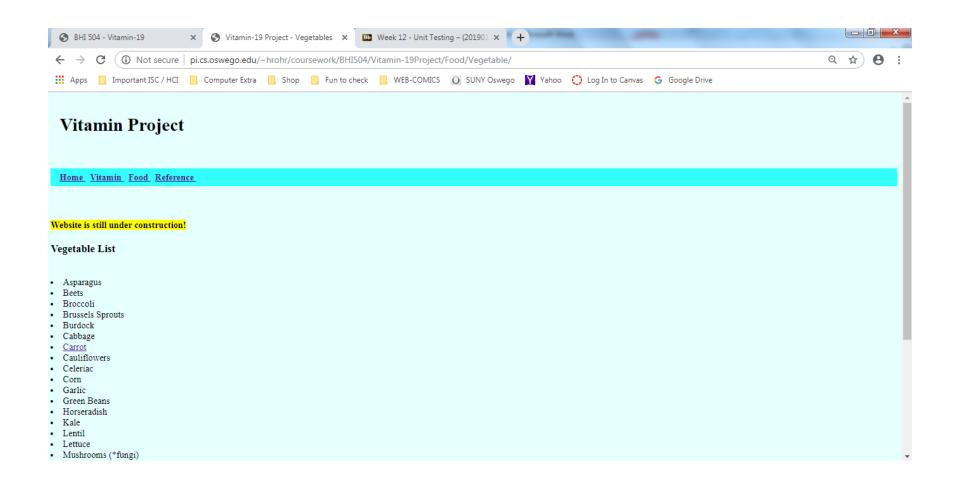




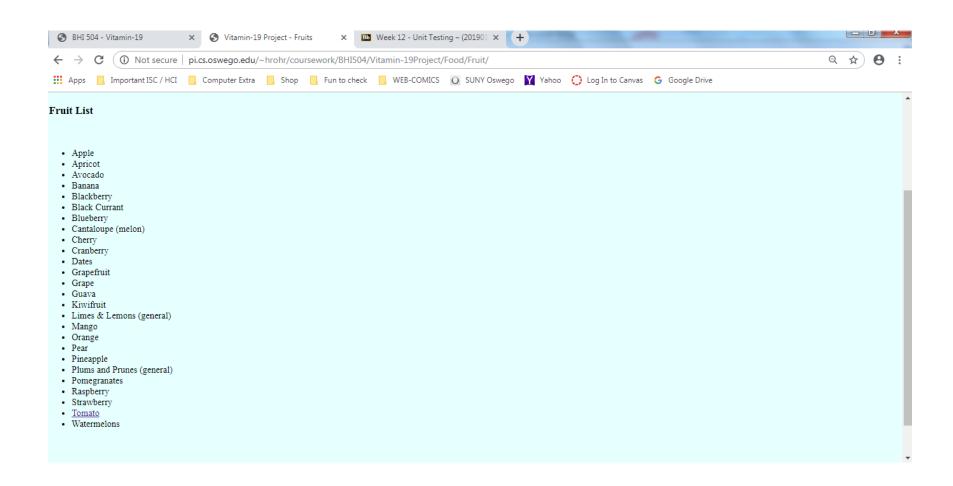
Food Selection Buttons



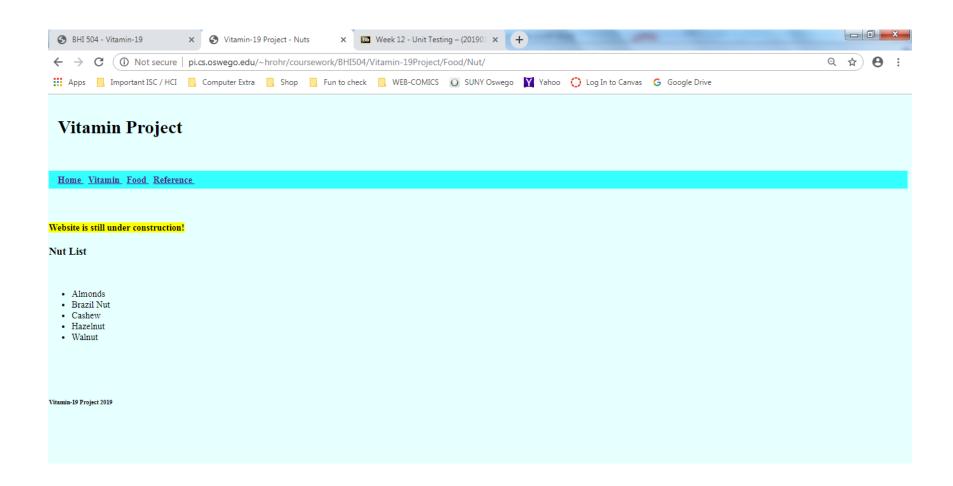
Screenshot of the Vegetable List



Screenshot of the Fruit List



Screenshot of the Nut List



Reflections

- More research of the subject would have been a bit helpful prior to building the rough drafts and diagrams
- The final results could have represented the imagined design a little better
- It could have been more simple to use Python or NetBeans to display basic information
 - However, the approach would have been different for both the user and the builder
 - I also was also concerned with how well the program would have successfully ran during the time period

Questions?

- For the students in BHI 504
 - You can ask questions or leave comments on our discussions board on "Blackboard."

Some References

- Russel, L., Layton, L., Vaugh, S., Alberti, C. (2017). *The Vitamins & Minerals Bible: Miracle foods to boost your health*. An Hachette UK Company.
- Pedersen, Stephanie. (2017). ROOTS: The Complete Guide to the UNDERGROUND SUPERFOOD. Sterling New York.
- Fernstrom, M. PhD CNS & Fernstrom, J. PhD. (2017). *Don't Eat This If You're Taking That: The Hidden Risks of Mixing Food and Medicine*. AARP Real Possibilities. Skyhorse Publishing.
- W3School.com
- Lucidchart. (2018 Aug). How to Make a UML Sequence Diagram (video). https://www.youtube.com/watch?v=pCK6prSq8aw
- Lucidchart website -https://www.lucidchart.com/users/register/free
- Tallfy website- https://tallyfy.com/
- <u>IxD Online: UCSD & Coursera</u> (April 2016). *Lecture 4.2 Design Heuristics* (1/3). Retrieved from YouTube and Blackboard(BHI 504).
- Pixabay.com (picture for powerpoint)

Thank You



Heather Rohr 2019, BHI 504