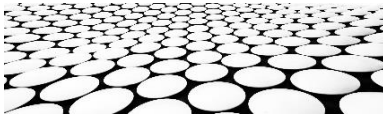


SEG3125 User Interface
Design and Analysis



MODULE 3 – TUTORIAL/LAB

Alternative for the Adaptive Online Grocery Site



GOALS

The proposal of design alternatives is fundamental to user-centered design. The purpose of this laboratory is to build an alternative version for the website built during Laboratory 2 allowing a user to purchase items from an online grocery store.

During this lab, you will:

- Continue to familiarize yourself with JavaScript for building dynamic web pages (responding to user actions).
- Familiarize yourself with the UI implementation toolbox presented in the videos which includes: words, widgets (components), structural patterns, navigational patterns.
- Implement various elements of this toolbox, in JavaScript, to develop a website that is different from the one you proposed in Lab 2.



SUBMISSION DEADLINE

- Tuesday, June 9th, 11:30pm



SUBMISSION METHOD

- In Brightspace, the Module 3 checklist contains a link for your submission.
- Do not submit files. Submit two links, (1) a link to the previous lab's website and (2) a link to your new website so that the teaching assistant can compare the rendering of your online grocery alternatives. If you are submitting before the deadline, be sure to enter FINAL SUBMISSION when you are ready to have your submission corrected.
- *ATTENTION: Any code or even "small piece of code" that you take from a website such as stack overflow or other should be accompanied by a comment that recognizes the source. In your submission text, you must indicate "Code for X inspired by (html link)".*



INSTRUCTIONS / TUTORIALS

From a technology point of view, this module encourages you to continue to familiarize yourself with JavaScript. We discussed structural and navigational patterns in the video series on the implementation toolbox. So, I invite you to explore the [section HOW TO](#) (in the MENU theme) to find examples of structural and navigational patterns. You will see that there are many more patterns than what was shown in the videos, but you will recognize some of them (accordion, breadcrumbs, pagination, etc.)



DESIGN

In this lab, you need to generate an alternative to your design from last week. To do this, continue to keep your 2 personas in mind.

Lucy, 28, is a vegetarian. She would like to be able to do her grocery shopping without being offered meat and fish. She has a limited budget, so likes to see the items in order of price to be able to buy the cheapest. Lucie has vision problems too, so she appreciates when the information on the screen is in larger fonts.

Eric, 45, has a gluten intolerance. He would like to do his grocery shopping without being offered items containing wheat. He prefers to buy organic products unless they are very expensive. Eric feels intimidated by all the names of vegetables that he does not know and prefers to see images.

Remember to think of scenarios for these personas that will allow them to reach their goals. The navigation pattern(s) you choose should make that scenario possible.



STARTING POINT

I am not providing starting code this week. It is up to you to generate your alternative design. You can use your code from last week as a starting point and change it.



CODING

You need to generate, using HTML/CSS/JavaScript, a small, dynamic website, allowing a user to shop online for groceries.

Level 1 requirements (Mandatory)

Our focus for this week will be on a good demonstration of the implementation toolbox. Your website should contain:

- All the functional requirements of Laboratory 2.
- Displaying product images, to assist Eric, was not required in Lab 2. Your Lab 3 alternative should include images for products. If for your image bank, you are copying images from a site, indicate the source in your submission.
- Words
 - Think about the choice of words. What words to put on the buttons? What words to use in the lists? In the instructions?
 - For example, the start code for Lab 2 contained:
 - *"Choose a category"*. This is too vague a question. The choice *"Vegetarian"* or *"GlutenFree"* is not appropriate. A person cannot be *"GlutenFree"*, it is a very bad choice of words.
 - *"We preselected based on your restrictions."* Are these really restrictions, or preferences? How to make sure the user will not be shocked by the word *"restriction"*.
 - *"Here is your cart."* Should we rather refer to the content of the cart?
 - Your Lab 3 alternative should have better choices of words.
 - Also watch out for spelling errors. Your site should not contain any errors. Have it reviewed by a relative or friend if you are unsure.
- Components (widgets)
 - Incorporate into your lab various components such as lists, radio buttons, check boxes. Modify the components that you had from lab 2. For example, replace a list with check boxes, or vice versa.
- Structure patterns
 - In lab 2, the product list was a simple list, without organization. You must add a categorization of products, namely: vegetables, fruits, dairy products, juice/beverages, cooking products (oil, spices etc.) etc. Choose the categorization you want and then, use a structural pattern to allow the user to see only one category such as only see the vegetables or only the fruits, etc. Use a structural pattern that you think is appropriate.
- Navigation patterns
 - Last week, the starting code had a navigation with the "Tab" which has a similar purpose as the card stack pattern we saw in the videos. That pattern structures the information in blocks, while leaving the user free to open one tab at a time. Implement a different navigation pattern in this Lab 3 alternative (you can refer to the HOW-TO area of the W3schools tutorial for ideas).

Level 2 Requirements (Optional)

Are you programming the Level 1 requirements too quickly? Then you would have time to program yet another alternative for the online grocery! It is often seen in the 3rd alternative that designers run out of new ideas... because it seems like the second alternative was already a good design. This is where we have to push our imagination. If you are making a 3rd alternative, include the 3 links in your submission.



EVALUATION

- This laboratory is worth 3.5%.
 - This laboratory gives you a lot of freedom, and so your evaluation will be based on your effort to build an alternative site (therefore different from Lab 2) which meets the above requirements about words, components, structural and navigational patterns.
 - Failure to provide sources of code inspired by code seen online will result in a score of zero.
 - Any delay beyond the deadline will have a penalty of 10% per day.
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QUESTIONS

- You can ask your questions in the Module 3 discussion forum on Brightspace.
 - There is a consultation schedule for the laboratories in the organization section of the course on Brightspace. That will tell you when a teaching assistant is available on the forum or by zoom.
 - You can also send your questions directly to the TA you are assigned to. Refer to the lab consultation schedule to see which TA you are assigned to.
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