**Sprint 1 – Fall 2024**

**Due Date: November 1,2024 @ 4:00 PM**

**HTML, CSS, and JavaScript**

Hello everyone, and welcome to Sprint 1.

For this sprint, you may form teams of up to three members (in some cases, four members with prior approval). Please inform Noman of your preferred teammates by adding their names to the file ([Teams.xlsx](https://keyincollege289.sharepoint.com/:x:/s/ProgrammingConceptsWithJavaScriptSept24toDec24/EfwJVKVF2ONJtfPIjYg_p-8BnQWhpQi-ToeYO1e6tkvR_w?e=iVYIcO)) as soon as possible if you haven’t already done so. If you'd like to be placed in a randomly assigned team of three, please indicate that as well, and we will organize it. Enter your name as Solo if you prefer to work solo on your sprint.

You have two options for this sprint:

1. Work on a project of your own idea.
2. Implement the project we have described below.

If you choose to work on your own idea, please send a written proposal to Noman via private message. The proposal will be reviewed to ensure that the project scope is appropriate and feasible within the available time.

# Project Requirements

1. Have a Figma design done up for your project following the design principles that Levin taught you in UI/UX. [Send source figma files to Levin as well – you can discuss with Levin about it]
2. Implement the project in HTML, CSS & JavaScript
3. Use proper Semantic HTML tags where applicable
4. Comment on your code for clear representation of its purpose
5. CSS code that approximates the design in the Figma mockup.
6. Must use DOM manipulation. [By keeping all the work done thus far in DOM, it is expected that you come up with some nice manipulations of webpages on the basis of different user interactions etc.]
7. Upload the finished project to GitHub

Beyond that, the possibilities are endless. Be creative and pursue what you find fun and interesting. Replicating popular apps is also a great option if one appeals to you and your team.

# Default Project

Here is a default project if you want to go with it:

A local restaurant owner, Gary Blue (not related to Mary Brown), wants to create a website for his establishment, Gary Blue’s Diner, to boost its visibility. However, Gary has no idea how to go about it. After hearing about a talented up-and-coming front-end developer, Gary decides to reach out to you!

His first request is to design a **home page1** for the website that is welcoming and provides quick information about the dinner, such as location, hours of operation, and a summary. Additional content could include positive customer reviews or a short biography of Gary. He also wants links on the homepage to the menu pages.

Gary is a passionate foodie who wants to showcase his offerings to the world! He needs a **menu page2** that includes each menu item with a title and description (like his mouth-watering signature Big Gary chicken sandwich). If you’re up for it, you can add some stock photos of the dishes. A great source for this is Unsplash.com.

To stay ahead of the competition, Gary also wants an **ordering page3** where customers can select their items, specify quantities, and enter their information for Gary’s team to prepare the orders. This can be a mock-up, or if you're feeling ambitious, you can implement a feature that updates the DOM with a confirmation message upon form submission.

Being a far better chef than a web developer, Gary has given you complete creative freedom! Use this opportunity to flex your creative muscles.

The home page should be attractive and eye-catching, featuring beautiful images from Unsplash.com.

1. The menu page needs to have all the available items, use some appropriate pictures for all items.
2. Try to imitate our “library project” on this online order page. For your help the following are the things that you would like to include in JavaScript here:
   1. Make an appropriate form that might have all the required fields that are available on an ordering form.
   2. Read input from different fields of order form.
   3. Apply some validations on the fields. Like no negative numbers in quantity, credit card regular expression checking for specific format, all fields should be filled in etc.,
   4. Make at least three functions and use appropriate functions for different purposes, like calculating the bill or maybe a function handling validation etc.
   5. Also make use of localStorage to store selected menu items from the user.

# Demo Pictures:

These are some demo pictures to provide a visual understanding of the project. They are not technical and are meant to ensure the project concept is clear. You **don’t have to copy this design at all**; rather, use these pictures for reference and create your own design. (***Moreover, they are not pretty at all, so need you to come out of your skin and have a designer cap and use your UI/UX imaginations to come up with an elegant design***)

Home Page:

Graphical user interface, text, application

Description automatically generated

Menu Page: A picture containing diagram

Description automatically generated

Order Online Page:

Graphical user interface

Description automatically generated

# Special Notes:

1. Write your own code.
2. Seeking occasional help from ChatGPT or other AI tools is fine, but do not copy entire code solutions.
3. The code generated by AI bots tends to be repetitive and predictable.
4. Relying heavily on such methods may not only affect your grades but also hinder your ability to adapt and solve problems in different scenarios.

# Submission:

1. One member of the group can submit the files, but it must be clearly stated who the other group members are.
2. Along with the submission, provide a one-page document that lists the group members and outlines the work distribution for each member.
3. Remember to validate your HTML document through an online validator before submitting (No red elements/attributes should be in your HTML)
4. Also, as mentioned in the class, always give comments in the beginning mentioning your group member names and assignment details.
5. When you are finished, save all the resources in a folder with your first names of all group members followed by underscore and sprint1.
6. Example: Alan Smith, Bob Woolmer, and Christina group’s folder will look like “alan\_bob\_christina\_sprint1”, zip it and submit it OR upload it on GitHub repository and share the link.

Enjoy coding!