Web_Lesson4: JavaScript, jQuery

Please do not forget to submit your feedback after the class. This feedback helps a lot in increasing the effectiveness of the course. Use the related Canvas survey to submit your ICP # and feedback

Lesson Overview:
We briefly look into object-oriented JavaScript along with jQuery. We also learn how to access APIs using jQuery

Use Case Description:
1. **Hangman using JavaScript**
   Build the Hangman game using JavaScript. It helps to understand the object-oriented JavaScript along with the basic JavaScript elements.
2. **To-do List**
   A simple app to maintain a to-do list and mark completed ones using jQuery.
3. **Hangman using API**
   It introduces the useful concept of using APIs.

Programming elements:
JavaScript (OO), jQuery

Source Code:
https://umkc.box.com/s/67d34vcuwli4gyjx90ajf44akucogewx

In Class Programming (ICP):
1. **Hover Image:** Look at the **Image I** and **Image II** for reference. When the user mouse hovers on the image, it should change the background of the empty frame with relevant images and text. For example, when the mouse hovered on the first image in **Image I**, it should change the contents (both background-image and text) of the empty frame, as shown in **Image II**.
   Code Reference: https://codepen.io/saisrinarne/pen/RwbZdyy
   Note: We have provided a basic (HTML and CSS) code. You need to write JavaScript code
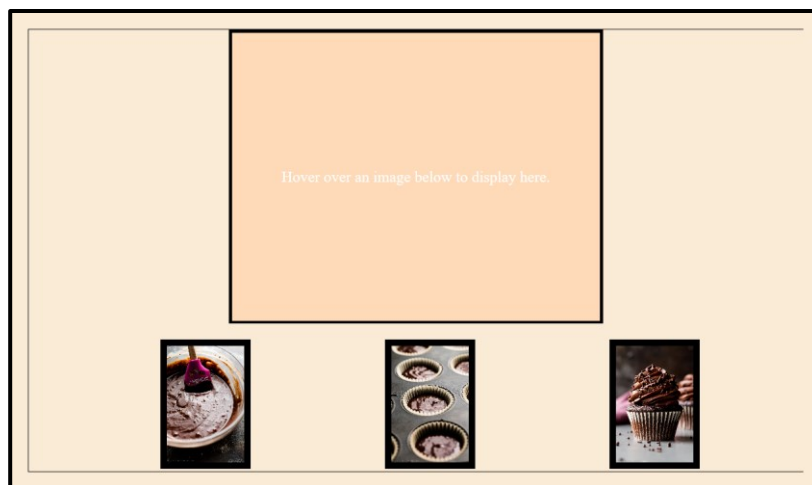
Image I

Image II

2. **GitHub User Finder:**
   Create an app which makes the call to the GitHub API (https://api.github.com/) and displays the following user's account details when any user searched by **username**
   - Name of the user
   - The ID of the user
   - Profile picture
   - Link to the user's account

   Note: There is no limit on details and creativity. You can add as many details as you can and create an attractive and interactive web page.

ICP Submission Guidelines
   1. ICP submission is an individual contribution
   2. Submit your source code and documentation to GitHub and represent the work through the wiki page accurately (submit your screenshots as well. The screenshot should have both the code and the output)
   3. Comment your code appropriately
   4. Video submission (3 to 5 min video showing the demo of the ICP, with brief voiceover on the code explanation)
   5. Submission after the due date is considered as a late submission. (Check the 'Late Submission Policy on Assignments' in the syllabus)
   6. Use the related Canvas survey to submit your ICP # and feedback

ICP Rubric Details
You can find ICP Rubric Details in both the Syllabus and Canvas ICP assignment.

Criteria	Novice	Competent	Proficient
Wiki page (25)	Basic wiki page. (>=0 to <=5)	Wiki page with the required details. (>5 to <=15)	Wiki page with all details and making it easy to follow and understand. Visually looking good. (>15 to <=25)
Video (25)	Basic video. (>=0 to <=5)	Video with the required details. (>5 to <=15)	Video with all details and making it easy to follow and understand. Annotated with the subtitles. (>15 to <=25)
Completeness of given assignment (25)	It is partially solved. (>=0 to <=5)	Completely solved. (>5 to <=15)	It is solved efficiently. (>15 to <=25)
Code Quality (It is relative) (10)	Refer to the best coding practices page. (>=0 to <=5)	Refer to the best coding practices page. (>5 to <=8)	Refer to the best coding practices page. (>8 to <=10)
Commenting the code (10)	Not useful comments. (>=0 to <=5)	Slightly appropriate comments. (>5 to <=8)	Appropriate comments. (>8 to <=10)
Time of submission	Submission after the due date. Check the 'Late Submission Policy on Assignments' section in the syllabus	Submission on the deadline. No score will deduct from the obtained score.	Submission before the deadline. No score will deduct from the obtained score.
Submission (including feedback) (5)	Submission with partial details. (>=0 to <=3)	Submission with the essential details. (>3 to <=4)	Submission with all the details. (>4 to <=5)
Total	**Minimum = 0**		**Maximum = 100**

Note: Cheating, plagiarism, disruptive behavior, and other forms of unacceptable conduct are subject to strong sanctions under university policy. See detailed description of university policy at the following URL: https://catalog.umkc.edu/special-notices/academic-honesty/