

FULL STACK ENGINEERING

COUSE 2- WEB DEVELOPMENT

ASSIGNMENT1- USER INTERFACE

Submission Date: Jan 2nd 2023 11.59 PM

Assignment Submission Mode: Canvas LMS- File Upload

Weightage: 10 [Question 1: 5, Question 2: 5]

QUESTION I:

1.1 OBJECTIVE:

To design and create a Homepage for the Application you have designed in course 1.

1.2 PROBLEM STATEMENT:

In this assignment, you are required to create a wireframe for the Homepage of the application you have designed in course 1. And then develop a webpage using HTML and CSS representing exactly the Homepage wireframe.

The Homepage Web Page should preferably contain the following (not limited to the below, you can get more creative)

- Header
- Navigation Menu
- The main section
- Sidebars

PART 1: UX DESIGN

Before sketching the wireframe, revisit your course 1 assignment and detail out the requirements for the Homepage.

Then use any of the available wireframing tools (figma, invision, balsamiq etc.,) to create the wireframe which clearly portrays the layout of the homepage and the various components on the page.

PART 2: UI DEVELOPMENT

Develop the wireframe designed in part 1 into a webpage using HTML and CSS (**homepage.html** and **style.css**). Use the concepts of CSS grid and CSS flexbox to create a responsive layout for the homepage

1.4) INSTRUCTIONS

- 1) Write the HTML code and CSS rules in a separate file.
- 2) You can include images, videos and other media in your layout wherever applicable. Reuse a single image wherever applicable. For videos and other media, preferably keep only a placeholder.
- 3) Do not include confidential / sensitive information in the content of the HTML. You can also include placeholder text (lorem ipsum ...) instead of real data as well

1.5 FILES TO BE SUBMITTED FOR QUESTION 1

- 1) Homepage.html
- 2) Style.css
- 3) Wireframes Snapshots(pdf/ image files / shareable wireframe links if any)

QUESTION 2:

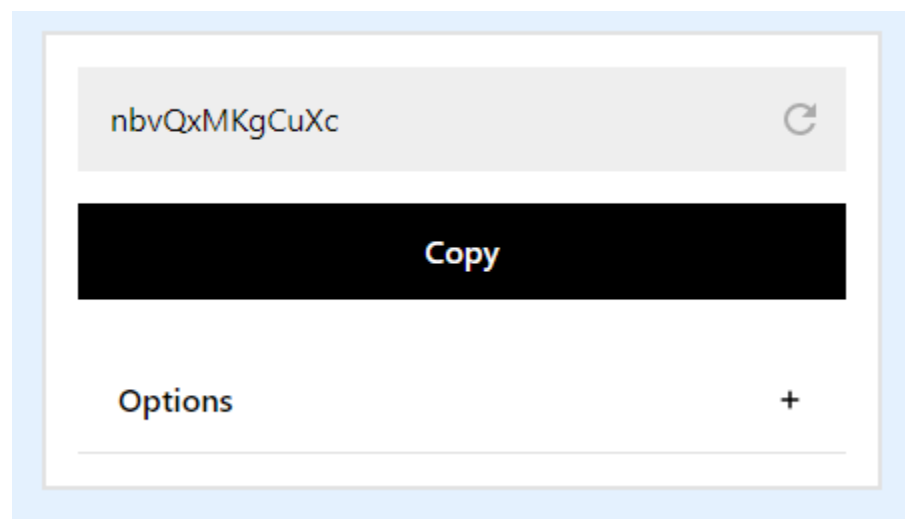
2.1 OBJECTIVE:

To create a password generator webpage as shown in the image below

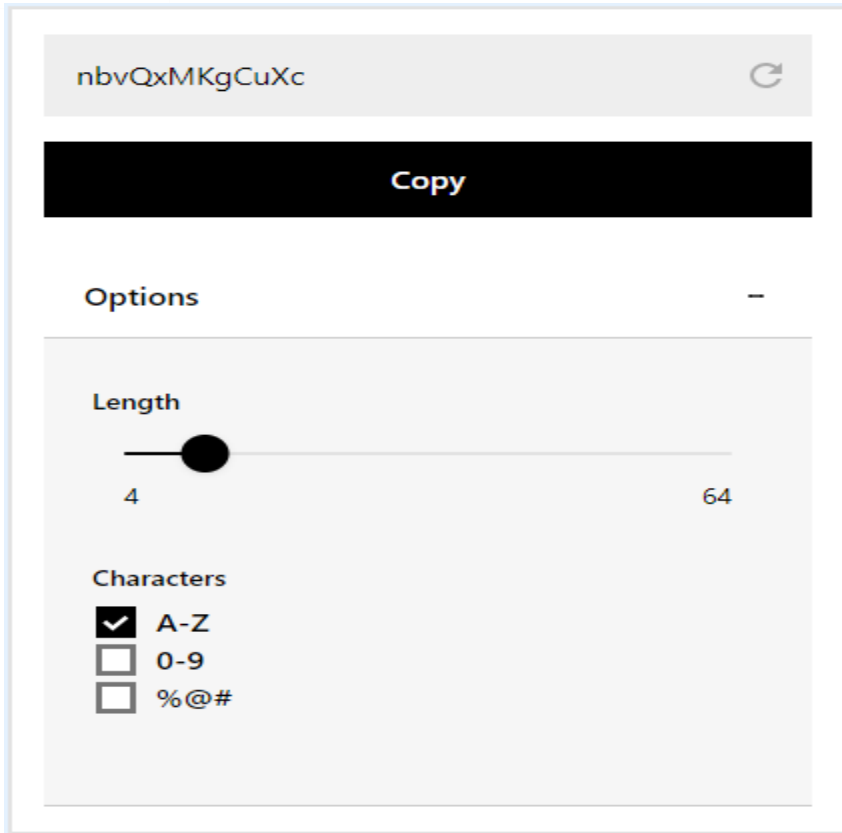
2.2 PROBLEM STATEMENT:

Create a password generator webpage which contains a text box for password, a copy button and an options to select the constraints for the password generation. Use the snapshots below for the reference. Use HTML, CSS and Javascript

SNAPSHOT 1



SNAPSHOT 2



The screenshot shows a password generator interface. At the top, a text box contains the generated password "nbvQxMKgCuXc" with a refresh icon to its right. Below this is a prominent black button labeled "Copy". Underneath the button is a section titled "Options" with a minus sign to its right. This section contains a "Length" slider set to 4, with a range from 4 to 64. Below the slider is a "Characters" section with three checkboxes: "A-Z" (checked), "0-9", and "%@#".

Files to Be Submitted for Question 2

- 1) Question2.html
- 2) Question2Style.css
- 3) Question2.js

NOTES:

- This is a take-home assignment to be carried out by each group independently.
- In case of any further queries, use discussion forums, or reach out to me at akshaya.ganesan@pilani.bits-pilani.ac.in.
- Upload a single zipped file which contains all your source code files. Name of the zip file: **<Group ID>**
- The submitted source code will be viewed and tested in Google Chrome Browser
- **Academic Honesty:** You are welcome to discuss with peers and refer the internet in order to better understand the concept, but you may not share code or do not do a verbatim copy from the internet.

