Individual Software Accessibility Assignment 1: Understanding Software Accessibility

Assignment due date: **April 1**

1. Goal of the assignment

In this assignment, you will answer a set of questions on the topic of accessibility. **This is an individual assignment**; therefore, you are NOT to discuss your answers with other classmates.

Note: This assignment is to be answered with the current knowledge you possess on the topic. **Please do not look for external resources to answer the questions below.** The assignment will be graded based on the effort (i.e., if the questions are attempted and answered with detail, when applicable), not if the answers are correct (and in many cases, there are no correct/incorrect answers).

2. Software Accessibility in General

Answer the following questions to the best of your understanding:
   a. What comes to your mind when you think about software accessibility? Answer this question using a cluster diagram (**Note:** The cluster diagram's main theme should be software accessibility, and it should have at least five subcategories related to it. For more information on how a cluster diagram is built, you can visit the following website: https://www.gliffy.com/blog/cluster-diagram)
   b. Do you have any prior experience with the topic of software accessibility? If yes, please elaborate
   c. As a software engineering student, how important do you think it is to learn about accessibility in software engineering? Choose one of the options below and explain why you choose that option
      * Very important
      * Important
      * Neutral
      * Unimportant
      * Very unimportant
   d. Over the past decade, the topic of accessibility has been gaining importance in the software engineering field, why do you think that is?

3. Software Accessibility in Requirements

   a. Is accessibility a functional requirement, a non-functional requirement, or both? Explain.
   b. Given that accessibility requirements address how disabled people can use technology, name at least three issues that people with disability could encounter.
   c. Have you heard of the Web Content Accessibility Guidelines (WCAG)? If yes, please explain the relationship between WCAG and requirements.

4. Software Accessibility in Design and Development

   a. Is designing for web accessibility the same as designing for mobile accessibility? Why or why not?
   b. Name three good practices that a software engineer should have when designing and developing for accessibility.
   c. What do you understand by assistive technologies? Are they important to keep in mind when designing software?

5. Software Accessibility in Testing and Evaluation

   a. What aspects of the software do accessibility testing evaluate?
   b. Which is the best approach to test accessibility: automated testing, manual (user) testing, or both? Explain.

6. Deliverables

There is one deliverable for this assignment:

1. **PDF file:** A PDF file must be submitted and should contain the answer to each one of the questions asked in Sections 2-5.

7. Grading

Item	Points
Section 2	25
Section 3	25
Section 4	25
Section 5	25
Total	**100**

You will receive points off if:

- There are missing answers
- Your document contains typos and writing errors