HCI – CPSC 4140/6140 Assignment 3
Due: Midnight (11:59pm), Wednesday, 6/23

Thoroughly study **Chapter 2 of The Design of Everyday Things (TDET): "The Psychology of Everyday Actions" and Chapter 3 of The Design of Everyday Things (TDET): "Knowing What to Do: Constraints, Discoverability, and Feedback"** by Donald Norman. Prepare and submit a report structured as follows:

- Report Introduction   (5 points)
- Chapter 2 TDET:
  - The gulf of execution and why it is important   (4 points)
    - One positive Computer Science or   (3 points)
      Information System (CS/IS) related example
    - One negative CS/IS related example   (3 points)
  - The gulf of evaluation and why it is important   (4 points)
    - One positive CS/IS related example   (3 points)
    - One negative CS/IS related example   (3 points)
  - The seven stages of actions: seven fundamental design principles   (5 points)
    - Explain in your own words the seven stages of actions, and why it is
      important in CS/IS interaction design
- Chapter 3 TDET:
  - Physical constraints   (5 points)
    - Your own CS/IS related example   (5 points)
  - Cultural constraints   (5 points)
    - Your own CS/IS related example   (5 points)
  - Semantic constraints   (5 points)
    - Your own CS/IS related example   (5 points)
  - Logical constraints   (5 points)
    - Your own CS/IS related example   (5 points)
  - Constraints that force the desired behavior   (5 points)
    - Your own CS/IS related example   (5 points)
  - Using sound as signifiers   (5 points)
    - Your own CS/IS related example   (5 points)
- Discussion and conclusion   (10 points)

Total: 100 points

Violating the formatting guidelines will result in up to 10% deduction.

Late submissions will result in a 10% deduction per day from the due date and time.

Guidelines for the Organization of the Report

Important guidelines
- As this **report combines both chapter 2 and 3 of TDET, it is expected to take considerable time to complete. Therefore, please start reading the chapters of the TDET and plan you writing tasks as soon as possible**. If you wait until the last week of the assignment to begin the assignment, it will be overwhelming and you will not be able to successfully complete the assignment or your submission will not be of sufficient quality to earn a good score. Therefore, I cannot underscore this enough, please start the assignment as soon as possible.
- The report should be **in your own words**. **You are not allowed to copy and definitions or concepts, or any text from the TDET textbook** as part of your explanation of the concepts in the bullet list above. **The concepts and definitions need to be in your own words**.
- The **report introduction** should state the purpose and rationale of your report such that it helps the readers understand what they gain from reading your report. The report introduction should also contain the **chapter introduction** is a general introduction to the topics of the chapter, describing what the author is trying to say or present in the chapter.
- **In the definition of the key concepts of each chapter** (Physical Constraints, Gulf of Evaluation etc.) summarize in detail the main points of the chapter in a way that displays your understanding of the key concepts. Be thorough not missing
- All the **examples** in your report should be **computer science (CS) and/or information systems (IS) related** examples that you may have encountered with respect to the concept that you are asked to explain. You are **NOT** allowed to use any of the examples in the TDET, or any other examples from class materials. Doing so will result in deduction of points. However, you are allowed to use examples from other resources as long as you properly cite them.
- Please insure that the examples you provide are well justified and related to the key concepts in the TDET text book. We often find examples that have no relation to the theoretical concepts, and submissions that do not explain how aspects of the example relate the key theoretical ideas, principles and best practices of the concepts in the textbook. Thus, these submissions consequently receive a low grade. **Please clearly convey or justify how aspects of you CS/IS examples clearly related the theoretical underpinnings of the concepts they illustrate**.
- **Discussion and conclusion** section should answer the following questions:
    - What makes this chapter interesting and important with applications to the design and evaluation of computing systems?
    - How has the reading helped you or changed the way you see the world around you?
- Important: **It is recommended to use images/pictures to support your points**. However, the images need to be numbered properly, have appropriate captions, and referenced in the text. Citation needs to be provided for any image obtained from an external source.

References section
- If you have any citations for text or images used from external sources, you should include them in this section.
- Not providing citations for external sources **will be considered as plagiarism**.

Formatting guidelines
- **Your report should be formatted using a modified MLA or APA (American Psychology Association) style. Refer to the accompanying example/template in Word and LaTeX format for exact specifications provided along with assignment 1.**
- Format the entire text of the report using the **'Times New Roman'** font at **12pt** size.
- Allow 1 inch for the left, right, bottom, and top margins on all pages.
- Headings should divide the report material into manageable segments. Use the following system:
  - Highest rank heading should be centered, boldface, and Title Case Capitalization.
  - Second rank heading beginning at left margin, boldface, and Sentence case capitalization.
  - Third rank heading beginning at a one-tab indent from the left margin, boldface, and Sentence case capitalization.
- Formatting the first page of your report:
  - Do **NOT** make a separate title page for your report.
  - Create a header in the upper right-hand corner that includes your Clemson username, followed by a space, and then the page number. Number all pages consecutively with Arabic numerals (1, 2, 3, etc.)
  - In the upper left-hand corner of the first page, list your name, your instructor's name, the course name, and the date. Use double-spaced text for this (double-spacing means leaving a full blank line between two lines of text).
  - Double space again and bold and center the report title. Do not underline, italicize, or place your title in quotation marks. Write the title in Title Case Capitalization, **NOT** in all capital letters.
  - Double space between the title and the first line of the text.

Length
- The report should not exceed **10 pages**, including the first page, any references, images, or appendices. Points will be deducted proportionally for extra pages.
- There is no minimum length for the report. However, the report will be judged based on the quality of the content rather than length, and points will be deducted for any missing information that is important to describe the concepts.

Submitting your report
- You must submit your report in **PDF format**. You can save as PDF from within Microsoft Word. LaTeX compiles to PDF by default.
- **Rename your file** as your Clemson username, followed by an underscore, followed by the three letters 'asg', followed by the assignment number, followed by the PDF extension.
  - Example: **sbabu_asg3.pdf**
- Submit your report by uploading your PDF file to the Assignments section in Canvas.

Academic integrity
- Please note that as clearly stated in the course syllabus, all assignment submissions should be your own work. Plagiarism from other student's work, textbooks, or online sources constitutes an academic integrity violation, and will be reported as such following academic integrity protocols. All student submissions will be rigorously tested for plagiarism using software. Please refer to the course syllabus for the complete academic integrity statement.

If you have any questions regarding the assignment, please email the TA Mr. Cheng Guo at chengg@clemson.edu or the instructor Dr. Sabarish Babu sbabu@clemson.edu