

**HIGHER COLLEGES OF TECHNOLOGY**

**Computer and Information Science**

# Non-Exam Based Assessment

# Case study

# Evaluation of a consumer electronics or appliance

|  |  |  |  |
| --- | --- | --- | --- |
| Course Name | Human Computer Interaction | Course Code | CIS 3003 |
| Date |  | Submission Date |  |
| Maximum Marks |  | Percentage of Final Grade | 15% |

|  |  |  |  |
| --- | --- | --- | --- |
| Student Name |  | College |  |
| Student ID |  | Student Section |  |

# This assessment will assess the following Course learning outcomes:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **CLO1** | **CLO2** | **CLO3** | **CLO4** | **CLO5** | **CLO6** |
| Question No. |  |  | x | x (partially) | X (partially) |  |

|  |
| --- |
| * The entire project/case study/poster is designed and developed by me (and my team members). * The proper citation has been used when I (and my team members) used other sources. * No part of this project has been designed, developed or written for me (and my team members) by a third party. * I have a copy of this project in case the submitted copy is lost or damaged. * None of the music/graphics/animation/video/images used in this project have violated the Copy Right/Patent/Intellectual Property rights of an individual, company or an Institution. * I have the written permission from people who are featuring in this project.   **Student Signature: Date:** |
|  |

**For Examiner’s Use Only:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Question Item | **A - C**  **Report/specs** | **E**  **HTA** | **D**  **Evaluation** | **F**  **Conclusions and Recommendations** |
| Marks Allocated |  |  |  |  |
| Marks Obtained |  |  |  |  |

**Total Marks:**

|  |
| --- |
| **Instructions** |

****The following is a list of **Consumer products (electronics & appliances)**

1. Microwave
2. Washing Machine
3. Dish washer
4. Standalone Digital Camera (Not the Phone Camera)
5. Camcorders
6. Mixers
7. Game Console (e.g., PS, Xbox, Wii)
8. AC Unit in house or car
9. Portable music player/ iPod
10. Home Stereo or home theatre system
11. Car navigation system/GPS or handheld GPS
12. Car stereo system
13. Non smart phone
14. ATM Machine
15. Telephone answering machine
16. Scientific Calculators (e.g. TI-84)

**Note:** You can choose another product- please discuss with your teacher first.

You should not evaluate a website, an app nor a software.

1. Choose a product from the above list.

Each student should have a different product.

1. Write a **well formatted report**

*Page numbering (exclude the Title Page)*

*Start every section on a new page.*

* 1. Cover page
* *Case Study for consumer product’s name, student’s name & id, course number and name, section, teacher’s name, date and a picture of the product.*
  1. Table of Contents
  2. Introduction
* *In a paragraph, write the purpose of this case study, the relevance of evaluating an interface, and the reasons why you are interested to evaluate the product you have selected.*
  1. Description of the Interfaces
* *In a paragraph, write the product’s name, model and maker. Describe the purpose of the device. Describe, in general, what the user can do (tasks) with the device and how the user can interact with its interface.*
* *Take four (4) clear photographs of the interface(s). The controls/objects shown in the pictures should be clearly labeled (name and function). Below each picture, provide your evaluations related to the usability (effectiveness, efficiency, safe to use, memorability, learnability) and design criteria (visibility, feedback, constraints, consistency, affordances).* 
  1. Hierarchical Task Analysis
* *Make a listed Task Analysis and write the text based HTA diagram*
* *Draw the HTA diagram (A diagram containing minimum of 5 horizontal tasks and 4 levels deep) using a software tool of your choice.*

*Specify preconditions, plans, options and repetitions.*

* 1. Conclusions and Recommendations
* *In a paragraph, write what you have learned from the case study. Briefly state your overall evaluation of the product.*
* *List two recommendations that you think will improve* ***the interface*** *of the product. Justify each recommendation with clear explanations.*

# Grading Criteria

**Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item** | **Description** | **Points** | **Achieved** |
| **Report Structure** | **Cover page:**  Case Study for consumer product’s name, student’s name & id,  course number & name, section, teacher’s name, date & a picture | 1 |  |
| Table of contents  Introduction,  Page numbering,  Start sections on a new page | 2 |  |
| Document Formatting and Writing Style | 2 |  |
| **Interface Description** | **Specification Description**  State the maker, model, purpose and tasks description | 5 |  |
| **Photographs**  **4 clear** interface **photographs** with descriptions, labels and functions. | 5 |  |
| **Listed Task Analysis** | Correct Sequence of tasks and Proper Indention  Optional, Repeated tasks are correctly indicated. | 5 |  |
| **HTA Semantics** | **Semantics:**  All Tasks and subtasks are covered and logically placed in the HTA diagram. | 5 |  |
| **HTA**  **Syntax** | a. All tasks and subtasks must be numbered correctly  c. A line under a task = there are no more subtasks  d. All tasks must be labeled clearly using a verb  e. Tasks that are optional can have the letter “O”  f. Tasks that are repeated can have the letter “\*”  g. Preconditions go in the top left (if needed)  h. Plans can be added under tasks. | 8 |  |
| **Interface Evaluation** | **Usability Criteria** | 5 |  |
| **Design Criteria** | 5 |  |
| **Conclusions, Recommendations & Justifications** | **Conclusions** | 2 |  |
| **Recommendations and Justifications** | 5 |  |
|  | **Total** | **50** |  |