

COMP1649 CW

[Document subtitle]



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greenwich

1. Introduction
2. Background literature
   1. HCI Research:

What Is HCI?

Human-Computer Interaction (HCI) is a dynamic and multidisciplinary field that places a paramount focus on refining the interaction between users and computers. At its core, HCI is driven by the objective of crafting interactive computer interfaces that are not only technically efficient but also seamlessly align with the diverse needs and preferences of users (Kanade, 2022). This field is characterized by its integration of insights from a spectrum of disciplines, reflecting its complex and multifaceted nature. Embracing elements of computer science, HCI draws on the technical aspects of software and hardware design to optimize the functionality and performance of interactive systems. Behavioral sciences contribute to the understanding of how users engage with technology, exploring patterns of user behavior and preferences.

Importance of HCI

Human-Computer Interaction (HCI) plays a crucial role in optimizing the interaction between users and technology, leading to a multitude of benefits:

Enhancing User Experience: HCI places a strong emphasis on designing technology that is user-friendly and intuitive, aiming to create positive experiences that promote the adoption and effective utilization of the technology, ultimately leading to increased user satisfaction. (simplilearn, 2023).

User Satisfaction and Loyalty: Satisfactory user experiences cultivate loyalty and contentment. Users who are pleased are more likely to endorse products or services to others, playing a pivotal role in building brand reputation and facilitating growth. (simplilearn, 2023).

Cost Savings: Incorporating HCI principles into technology design results in cost savings by minimizing the need for customer support, reducing errors and the necessity for rework, and enhancing overall user efficiency. (simplilearn, 2023).

* 1. HCI Theory

In the context of a coursework involving Human-Computer Interaction (HCI), it's crucial to incorporate relevant concepts and theories from the HCI field to inform the design and development of a product. Here's a brief discussion of potential elements to include:

Cognitive psychology is the branch of psychology dedicated to studying how people think. The cognitive perspective in psychology focuses on how the interactions of thinking, emotion, creativity, and problem-solving abilities affect how and why you think the way you do. Cognitive psychology attempts to measure different types of intelligence, determine how you organize your thoughts, and compare different components of cognition.

1. Design Process
   1. Conceptual Design
   2. Design principles
2. Prototype

A close-up of a usb cable

Description automatically generated

A screen shot of a watch

Description automatically generated

A cartoon of a mask attached to a cylinder

Description automatically generated

A white cell phone with a colorful apple logo

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A screenshot of a cell phone

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A screenshot of a cell phone

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A cell phone with a picture of a person swimming underwater

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A screen shot of a smart watch

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A screenshot of a smart watch

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A digital watch and a scuba diver

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A gas cylinder with a circular display

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A cartoon of a person holding a fire extinguisher

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A black cylinder with a yellow button and a green cylinder with a yellow button

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A person swimming under water

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A person swimming underwater in a watch

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A screenshot of a watch

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1. Research Study
2. Conclusion