

Course name: Human Computer Interaction

Assignment no.: 1

Title: Exploring Human-Computer Interaction and Understanding Interaction

Subtopic 1. Introduction to yourself.

As a student majoring in Computer Science, I have been studying various topics related to computing. These topics will prepare me for a career in software development, data analysis, cybersecurity, and other related fields. One of the areas of study that is particularly important in computer science is Human-Computer Interaction (HCI). This field focuses on designing and evaluating interactive computing systems that people can use. It includes things like user interfaces, optimizing information processing, and applying principles of user-centered design to software development processes. With this knowledge, I can make sure that various user interfaces meet the needs of their users, which improves their experience and satisfaction.

As part of my senior capstone project, I am studying a robot called "PIBO" and how to build a rapport between humans and robots. I've learned that the interaction between humans and robots is very important. To make this interaction more effective, we need to analyze emotions and form a bond through various activities. As a computer science major, I'm interested in experiencing the teaching style of similar ICT majors. ICT covers a wide range of technologies used to manage and communicate information. My experiences in computer science have provided a strong foundation for a career in the tech industry, and I'm excited to explore possibilities in HCI.

To upgrade the quality of the project, I want to learn something useful for it. I want to learn how to gain human data effectively. To gain human's physical, cognitive, emotional data, there are effective ways that have been tried before. Also, after we gain feedback from user, I want to learn how to evaluate the project and set direction of the project. Learning the user experience design is one of the expected studies in this course. To Professor, I wanted to say thank you for teaching this semester. I'm really looking forward to learning from you and working hard in class. Your knowledge and guidance will be helpful in achieving my goals. Thank you for all that you do, and I hope to have a great semester with you.

Subtopic 2. Explain what is “interaction”

The philosophy of interaction is a way of looking at how we interact with everything around us, including people, technology, and the environment. It's about understanding how we communicate, connect, and relate to these things in our daily lives. Our interactions with the world around us can be grouped into four main categories: with people, with phone or computer, with other device/objects, and with God (in the context of Christianity).

When we interact with people such as family, friends, and colleagues, effective communication is important. This involves both verbal and non-verbal cues like active listening, empathy, and appropriate body language. We often form relationships based on shared values, experiences, and interests. In interacting with family, friends, and colleagues, verbal communication is often a key component, but it's also possible to interact without language. For example, at school, interacting with friends by sharing a meal or participating in sports activities also counts as a form of interaction.

Interacting with mobile phones and computers usually involves using interfaces like touchscreens, keyboards, and voice assistants. The philosophy of interaction here focuses on creating user-friendly and intuitive interfaces that are accessible to everyone. Listening on music, watching movie or drama, asking weather, clicking the mouse or keyboard, watching the user interface are all interaction that we use.

Interacting with other device or objects around us is more instinctive and often involves using our senses to explore and understand our environment. For other device like AI speaker or robot, we can have interaction that phone or computer can't. For object, we use touch and observation to learn about the properties of objects like their texture, weight, and shape. We may also use tools to manipulate our surroundings to our advantage.

Lastly, interacting with God can take many forms, including prayer, worship, and reading Bible or related text. This philosophy of interaction centers around faith and spirituality and may involve a deep sense of respect and awe. The brief prayer said before a meal can also be considered as a form of interaction.

In conclusion, the philosophy of interaction is about understanding how we connect and relate to the world around us. It involves effective communication and relationship-building with people, user-friendly interfaces with devices, exploring and manipulating our objects, and deepening our spirituality through interaction with God. By recognizing the

different forms of interaction and being intentional about how we engage with them, we can enhance our daily experiences and relationships with the world around us.