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MMG3033

HUMAN-COMPUTER INTERACTION (HCI)

GRAPHICAL USER INTERFACE (GUI)

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HUMAN COMPUTER INTERACTION (MMG 3033)

SEMESTER 2 SESSION 2020/2021

ASSIGNMENT 1: GUI

Working in a group, you and your teammate are required to conduct a **hierarchical task analysis (HTA)** based on the study scenario given in Figure 1.0 as follows.

The Covid-19 is a disease caused by a virus in the family of Corona virus, that led to a pandemic in 2020. A pandemic is a new disease which easily transmitted and globally spread that caused massive transition on human lifestyles. To help stop the transmission of the virus, it is important to enhance public awareness through appropriate knowledge dissemination method. A good planning and design are crucial to ensure better understanding.

Generally, when it comes to public awareness, it comprises of all users from novice, intermediate, expert and also disabled, which are either technological-literate and computer savvy or vice versa. Hence, your group are required to design an interactive educational video that highlights important aspects like:

1. **Give users some background knowledge on the pandemic situation and current environment;**
2. **Teach them why they should take serious precaution and prevention;**
3. **Give them some functional information about what can/can't be done during this Covid-19 situation, how to stop it, how to get vaccinated, and where to get the latest and accurate information (links).**

The video will act as the heart of knowledge dissemination amongst public, indirectly providing public awareness to stop it.

Figure 1.0

Hints: You can provide your answer either in textual representation or graphical view.

1. Ask and answer **five (5) typical task analysis questions** about the video. Your answers to these questions should come directly from the study scenario, common knowledge, reading and logical inferences about the assignment. Answers should be specific and detailed.
2. Create a persona that demonstrates the tasks necessary to achieve the goal.

TYPICAL TASK ANALYSIS

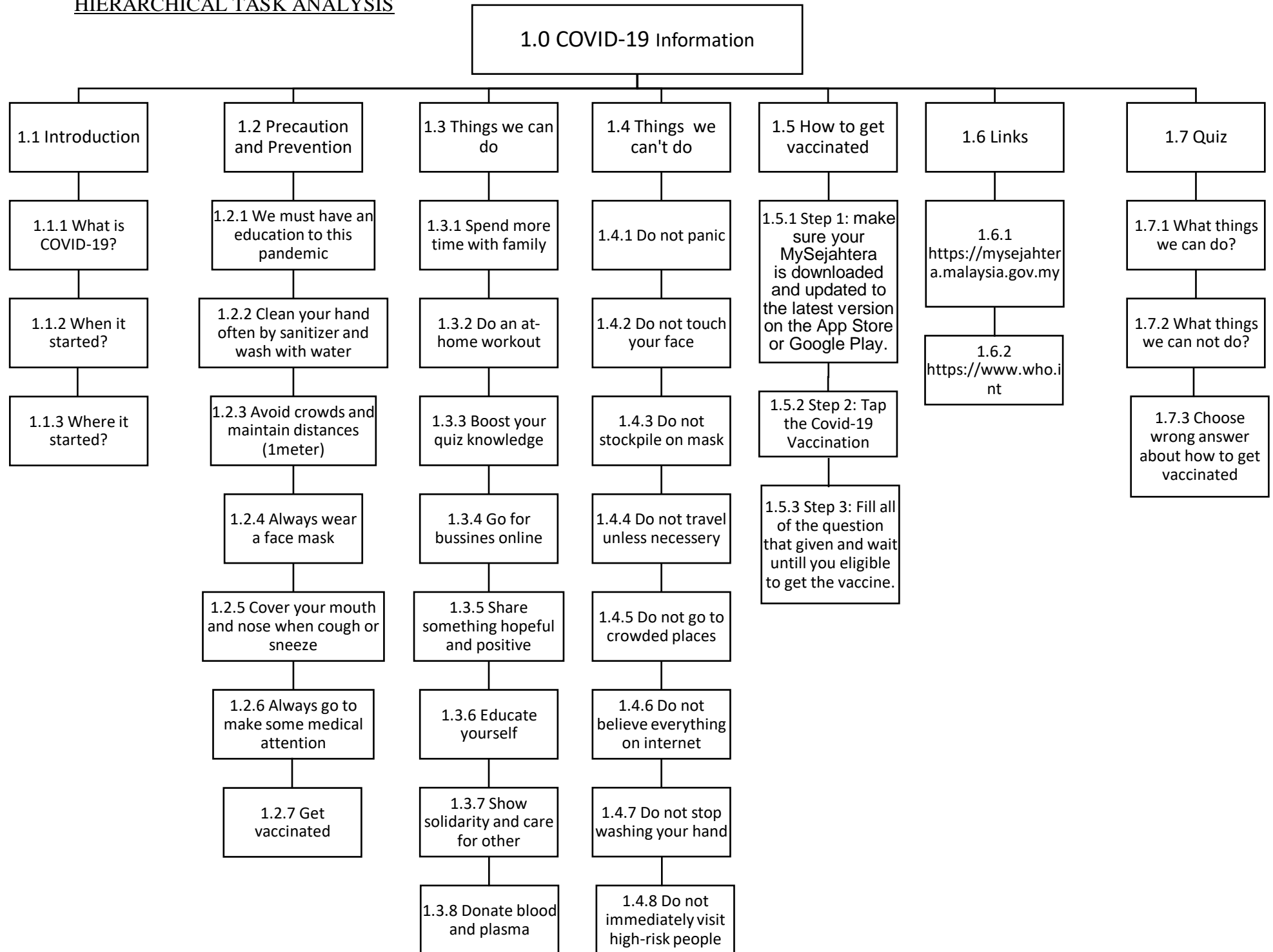
First of all, things you must care the most if you want to make the interface is you must identify who is the user of that interface you want to make. In this case, we want to make an interface about the public awareness for corona virus disease 2019 (covid-19), so the users are novice, intermediate, expert and disable people because this is a public awareness.

Before we proceed to make an interface, we need to do a hierarchical task analysis (HTA). A hierarchical task analysis describes an activity in term of its specific goals, subgoals, operations, and plans. Once this task analysis is complete, we can describe in detail about our task or interface. This hierarchical task analysis provides an understanding of the task's user need to perform to achieve our curtain goals. For our task, the major task is covid-19 information and our component part or subtask is introduction to the virus, precaution and prevention, things we can do, things we can't do, how we can get vaccinated, links to get the latest and accurate information about the virus, and some quiz about this virus.

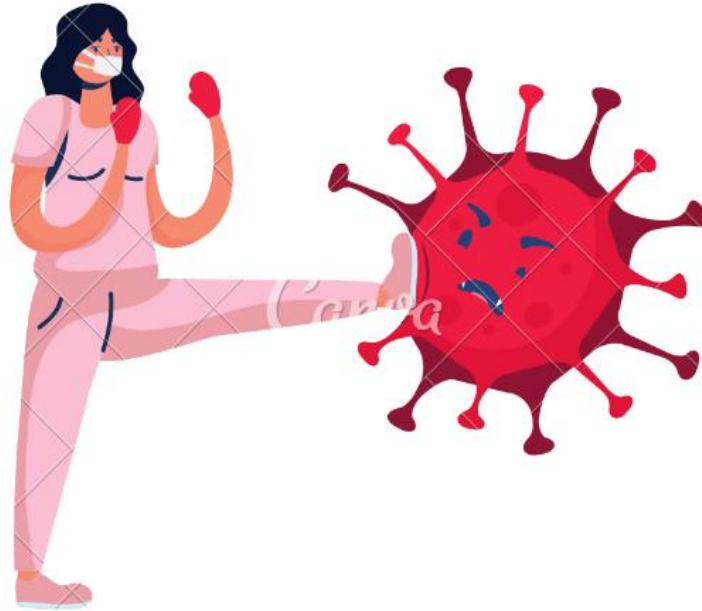
Furthermore, we need to choose our environment either it is offline or online, based on our task, we just choose offline environment. If we choose offline environment, our interaction devices and interaction style is kiosk.

Last but not least, how we design and evaluate this task? We design this task using PowerPoint prototype and we evaluate this task with use and impact.

HIERARCHICAL TASK ANALYSIS



PERSONA



Based on our task, we create this persona using Canva software. We create and choose this persona is based on our main task that refer to covid-19 information. The conclusion to our task is about how to avoid the corona virus, so we create the symbols that seems we going to avoid this virus. First of all, we look at the women who push away the virus with her feet and don't touch that virus because we barely used our hand the most so if we do not keep our hand clean, the virus will easy be infecting our bodies. With use the mask, we can avoid and retarded the virus from go to our bodies. That's the little explanation about why we choose that persona and this persona also will be our main attraction on our interface.