

User-Centered Design 2020

Demo 2_1



UNIVERSITY OF
EASTERN FINLAND

Halil Ibrahim Uluoglu

haliluluoglu@gmail.com

312843

User-Centered Design

07.04.2020

A. I have already been using MS PowerPoint, Google Slides everyday. So, I am very familiar with these tools. However, I am Windows user so I don't have access to Keynote. Figma, WireFrame CC, Pencil Project, Inkspace, MockPlus I have sign in all of the tools and I created little work with each of them. On the other hand, I could not reach iDoc. Also while I was searching these tools I came up with a fantastic, great Youtube channel called "TJ FREE" about design. It has free courses pretty much every design tool. I currently follow these courses on the channel, It helps me a lot.

B.



I have created a 3D Model for my touch-based with pressure sensors stove using Archicad and Photoshop programs. Also I have created a 3D Model for a [kitchen click here.](#)

Stove features:

- Pressure sensors are sense the cooking area and They heat that area to save energy. Also, It is optional to have only open tops with touchable buttons.
- Level adjustment for all area and cooktop individually. It avoids heating all the stove, saves energy and reduces damage to the person may happen.
- Touchable, vibrative switch on/off buttons.

C.

Questions	Person 1	Person 2
Determine the function of your design?	The function is cooking efficiently. 10	Saving resources while performing an everyday activity. 10
Tell what actions are possible?	Saving energy, Touch based control, individual and comprehensive heating. 9	Able to cook raw food with whole surface. Touch-based control. Vibrative switch on/off button 10
Determine mapping from intention to physical movement?	It can be misleading to accidentally touching the surface. User can forget if it happens. 6	All heating area can be dangerous to the person who touches the surface for aiming the control buttons. 5
Perform the action?	Arrange heating, Calm and mere design.8	Vibration buttons, arrange heating, energy saving with pressure sensors.10
Tell if system is in desired state?	Yes, It is sustainable to use for everyday usage.9	With some cons, It is a desired system.9
Determine mapping from system state to interpretation?	It can be determined by examining the model.9	Determination can be done with reading descriptions of the model.9
Tell what state the system is in?	There are some heat information on the model so it can be said that it is switched on and working.10	We can say it is not working state because we can see the colour difference around the tops.9

D.

Person 1: She is an architectural student. She is 22 years old and she has intermediate cooking skill. She has a lot of design experience. She is a tidy, perfectionist and creative person. She has given 61 total points out of 70. She considers about whole touch-based surface can cause problem which a person can accidentally open the stove and forget it.

Person 2: He is an engineer student. He is 22 years old and he has high level cooking skill. He doesn't have design experience. However, he has great experiences about building a system from down to top. He is a systematic, realistic and innovative person. He has given 62 total points out of 70. He considers about touch-based surface can cause dangerous for a person who tries to aims the button while controlling.

E.

The most important part about this design is that It is mapping with user desire and purpose of usage. Also, it is not a stereotype, it is a new concept which combines technology and user design together for a tool that people use everyday. It has individual differences from stereotypes because It has for example, pressure sensors.

For further improvement it can be better to get constrains about the heating surface because according to feedback it might be dangerous sometimes. For example, touching the surface can damage the person while controlling the button. Also, they can forget to turn off the stove. It is better to put a warning system and also more colorful choice and supported with voice system.