

Final Redesign

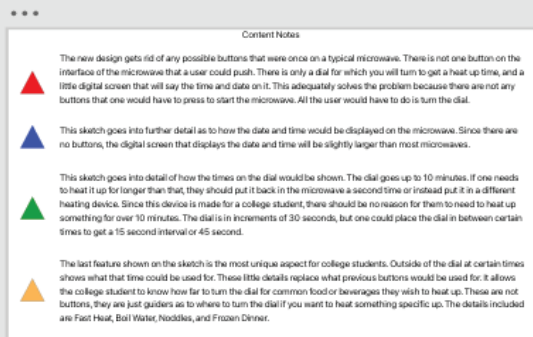
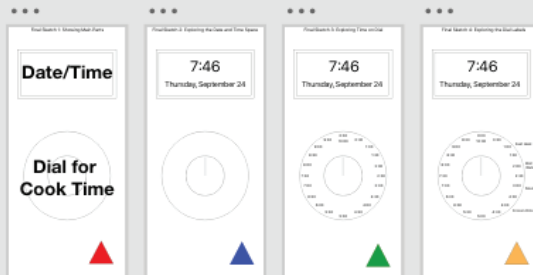
Final Mini Portfolio

Grade This One

Briley Cox September 24, 2020

Framed Problem:

Normal microwaves have too many buttons. Especially for college students, the amount of buttons and clicking all over the microwave is a waste of their time with busy schedules. The food buttons are really useless when students just prefer to put food in for the amount of time they like.



Memo:

The new design for the microwave was made with the college student in mind. It took out all the useless buttons from the previous microwave. The design makes it much easier for students to use by not having to click on buttons to heat up their college favorites. Instead, they now can heat up their food with the turn of a dial to the time they want. The design was created to take out all the pointless buttons in a microwave, in so doing, making it an easier experience for college students to use the microwave in their dorm rooms.

The principle that was focused on the most in this design was the 80/20 Rule. The 80/20 Rule explains when 80% of a system's audience uses only 20% of the overall design. When creating this design, I kept this principle in mind because I wanted my audience to use most, if not all of the interface of the microwave. Therefore, I kept it simpler and just used the larger dial and digital screen for time instead of buttons. A slight turn is much easier than clicking a few buttons. With the use of the dial in a smooth circle, it accommodates the Gestalt Principle of Good Continuation. By turning the dial, it draws your eyes all the way around the circle or draws your eyes around a curve to whichever time you end up selecting. This makes it so much easier to pick a time because it is a smooth circle that leads from each 30 second interval to the next. The last principle I kept in mind while I was designing a new interface to a microwave was Advance Organizer. I have not seen any microwaves with a dial for time, but the whole dial concept is like a microwave oven when you turn a dial to select the temperature. Although my audience may not know how to use a microwave without buttons, their previous knowledge of microwave ovens and use of dials in vehicles will guide them in the right direction on how to use this microwave.

First Redesign

Mini Portfolio 1a

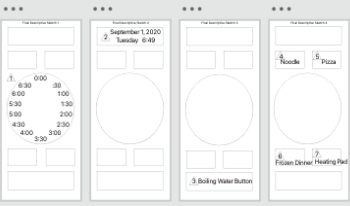
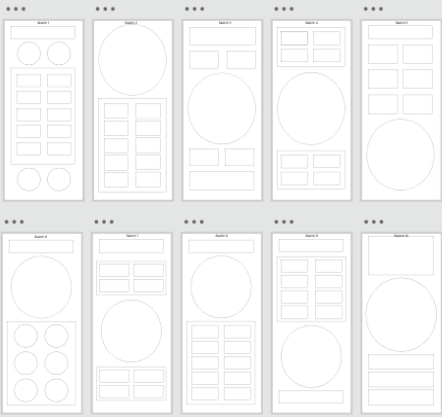
Briley Cox August 31, 2020 Framed Problem

Framed Problem:
 In regular microwaves, many buttons need to be pressed in order to perform the simple task of heating something up for a certain amount of time. College students need an easier way to set a time for the heating of their food and beverages. The press of one button instead of a few or the spinning of a dial would be much easier and efficient for college students that are trying to feed themselves while maintaining a college and study schedule that is demanding.

Memo

The design of the new microwave for college students is the best and most efficient in order to allow for heating of items with the click of one button or the turn of a dial. With this design, there are no more "Time Cook" buttons or even a keypad where numbers once were. Instead of a keypad of numbers 0-9, there is a dial that goes from 0 seconds to 6 minutes and 30 seconds. This ensures that the user can adjust the dial to the time of their choosing without hitting any buttons. The dial is the part of the design that follows the 80/20 principle. Figuring that this is the easiest way to heat food without the touch of buttons will cause 80% of people to just switch the dial instead of clicking any buttons. This part of the design is only a small portion of the overall screen of the microwave, concluding that the 80/20 principle will be relevant.

The rest of the design focuses on aspects that are important to college students. By doing research and asking college students, many explained they wanted buttons that featured their favorite college foods. The buttons of "Noodles," "Pizza," and "Frozen Dinners" allow the college students to heat up their college favorites with the click of one button, instead of a few numbers. The microwave is also complete with a more advanced time and date in order to remind college students of what day of the week it is because it is not the easiest thing to remember with a crazy schedule. Along with the craziness, there is a heating pad button to give the busy students a nice warm heating pad for their headaches and pains after a long day. The design of this microwave is the best for college students in order to get the hot beverages they want with the click of one button or a small twist of a dial.



- Content Notes
1. The large dial in the center of the microwave shows how the user can adjust the time. This is way simpler than pressing many number buttons. Similar to a microwave oven, you turn the dial to the time you wish the microwave to heat your food up. This dial is really used in instances when you are heating something up that does not go under the category of a button on the microwave. The easy to use dial is much easier for a college student as it is a small heat instead of a bunch of pressing on the screen. This portion of my design will reflect the 80/20 principle. Although the other buttons will be useful to the user, the effectiveness, and easy usability will cause 80% of people to use 20% of the overall features.
 2. The large display of the date and time is on the top of the screen of the microwave to catch the eye of the user. This is especially important because some college students forget the date, and day of the week because of their busy schedules. A quick look at the digital screen will allow students to know the time and day without hesitation.
 3. The boiling water button is a necessity for college students. The button will ensure that you can boil an 8 ounce cup with just the click of one button. This is good for hot chocolate, cup of noodles, and tea, foods and beverages that are very popular among college students.
 4. The noodles button is very important for college students for the making of foods: ramen noodles and easy meal and cheese. The touch of one button will ensure that you will have easy noodles of your choosing by pressing one button.
 5. The pizza button is used to heat an leftover pizza, hot pockets, or any melted cheese food item with the touch of one button. This is so easy for college students so they can heat up a quick meal fast.
 6. Frozen dinners are an easy way to get a few items in the comfort of your dorm room. The frozen dinners can be easily stored in your fridge and heated up in the microwave with the touch of the "Frozen Dinner" button.
 7. College can be stressful at times. This brings on headaches. The heating pad button allows for a small heating pad to be heated with the press of one button. Easing a headache has never been so simple than just a touch of one button.