

DESIGN PROCESS

Identify the Need

In this assignment, we were told to find a problem in the local community that you think is major. For example, pollution, poverty, etc. Based on the problem, we need to figure out a way through which the problem can be solved. The solution has to be design that you create.

When a person first moves into a new country, the first thing they worry about is the language of that place. You have to make sure you are comfortable communicating with the people. Because every country has their own language, people are unable to communicate.



Therefore, a problem that I chose was Communication



Problem. There are many communication problems all around the world. These problems occur in workplaces and in people's everyday life. The most important international language that everyone is expected to know is English. However, there are countries where English isn't taught since childhood. This causes problems for them in future if they plan to work on some other country or settle there forever. Therefore, people try to learn the other language. However, because they aren't use to speaking that language, they can't seem to get fluent at it and often find difficulties. It's not impossible, but just a little hard.

So in order to make it easier and less hard to communicate, I decided to make a design combining a microphone and a Bluetooth headset. These two together would convert the language. As one person speaks into the microphone, the language that he/she speaks will be converted be spoken in the language select on the Bluetooth headset.

Research and Develop Solution

In today's world, we use human, electronic or internet translators.



However, these translators have some negatives. A human translator cannot know all the languages there are in this world. And a translator cannot be present everywhere you want need. The internet translation aren't accurate, they sometimes shows the wrong translation of a word or sentence. And you always need an internet connection in order to use them. The electronic translator can cause harm to us. They might have side effects due to the radiation. This means they shouldn't be used all the time.

Therefore, because any kind of translators wouldn't be needed in this world, people are expected to know English, being the international language.

Importance of English:

- English is the main language of books, newspapers, airports and air-traffic control, international business and academic conferences, science, technology, diplomacy, sport, international competitions, pop music and advertising.
- Over two-thirds of the world's scientists read in English.
- Three quarters of the world's mail is written in English.
- Eighty per cent of the world's electronically stored information is in English.
- Of the estimated 200 million users of the Internet, some thirty-six per cent communicate in English.

Seeing the statistics, we come to know that English is quite an important language to know. When two people from different countries meet, the first language they talk in is English. It is a language that everyone is expected to know and speak.

Now let's see some statistics on people who speak English:

- English has official or special status in at least seventy five countries with a total population of over two billion.

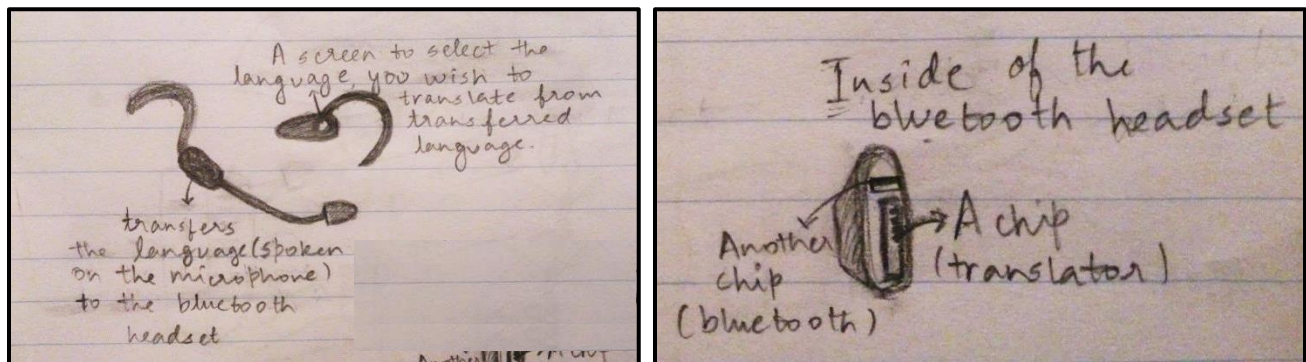


- English is spoken as a first language by around 375 million and as a second language by around 375 million speakers in the world.
- Speakers of English as a second language probably outnumber those who speak it as a first language.
- Around 750 million people are believed to speak English as a foreign language
- One out of four of the world's population speak English to some level of competence; demand from the other three-quarters is increasing.

As we all know, English is an international language that everyone is expected to know. However, many countries don't speak English. As we see in the statistics, out of 7 billion people in the world, only 375 million out of them speak English.

Evaluate Solutions and Select the Best One

I sketched out a design of what my product would look like:



Sketches/Prototypes/Model

So first both the people switch on the button of the microphone and the Bluetooth headset. Then, on the Bluetooth headset, you select the language you want to hear. The Bluetooth headset contains two chips: one of the chip connects and takes in the words spoken from the microphone. The other chip takes this information and converts it into the language that has been selected on it. Therefore as the one person speaks into the microphone, the words transfer into Bluetooth headset and the other person hears those words in the language they had selected. All the languages in the world are in this Bluetooth headset.



Test Evaluate Communicate

Now the design is ready, the product was given to people for testing, two people from different countries.

First, we met two people from Sweden and China. We gave the set and told them to communicate through it, using their original language. Their reaction after using it: "This is amazing! Now we won't have to worry about carrying the electronic translator everywhere we go."

We then met a Russian and Egyptian. Their reaction: "The best part of this translator is that you can choose any language. It has all the languages there are in this world!"

Then, we met a British and Spanish. Their reaction: "It's great. But I just wish one day everyone in this world knew English. Then we wouldn't have to use any sort of translator."

Redesign

After testing this translator, we come to know our design was a success! However, one person from our test wished everyone knew English, so that we wouldn't have to use any sort of translator. That's when I got an idea of what I would do next time.

So next time, I would make a chip that would be fixed inside a human's brain. This chip feeds in the Basic English into the person's brain. So due to the chip, everyone would understand and speak the Basic English.