Think. Create. Evaluate

This activity requires a different type of creativity, although the techniques you will apply are the same that you have used or will use, in other activities. Now you must create a product that will either solve a problem, or it will meet a need that you see.

So, what you have to do step by step…

1st step: read the basics about the brain storming technique

2nd step: Identify the Need or Define the Problem

Many times designers do not generate an idea on their own, but they are motivated by the problems of a customer, society, or the environment that "need" to be solved to achieve a basic "need", but without a clear definition of this need, the engineering design process cannot begin.

3rd step: Conduct Research

Research must be focused and incorporate new ideas and a thorough exploration of old similar ideas. Sometimes the old ideas are the best, because they may have failed due to a lack of new technology that may exist now.

4th step: Brainstorm

It is important to consider all approaches to the problem or the need you should achieve. Brainstorming encourages a maximum amount of input from different levels of experience and different approaches. Come up with at least three design solutions and evaluate each of them.

5th step: Design and Evaluate the Best Solution

The first step is to start sketching to get your ideas on paper. Drawing by hand enables you to tap your creative side and helps you translate your idea. During this step you can modify and evaluate your initial idea.

1. Group Brainstorming

Group brainstorming can be very effective for bringing the full experience and creativity of all members of the group. But, it is easy sometimes to feel lost or overwhelmed of the amount of the ideas.
Managing the process carefully will help you and we suggest you to follow the following rules:

- Find a comfortable meeting environment (the forum you have in your group page is ok for this).
- Appoint one person to record the ideas that come from the session.
- Define the purpose of your product (problems or needs the product will serve)
- Ask people to give their ideas.
- Encourage people to develop other people's ideas
- Encourage an enthusiastic, uncritical attitude among members of the group. Ensure that no one criticizes or evaluates ideas during the session.
- Let people have fun brainstorming.
- Ensure that no discussion or thought is too long.
- Evaluate all ideas and choose the best of them.

2. Your task

A company assigns to your team to design a supermarket trolley which should be innovative. All of us have used these trolleys in our daily lives. Think about what you don’t like or what you would like more than one such trolley and design it!

3. Tools

To exchange ideas about your designs, we recommend that you first design it on paper and exchange them through the forum or for large files you can create a joint account in the dropbox.

Dropbox

Dropbox is a free service that lets you bring all your photos, docs, and videos anywhere. This means that any file you save to your Dropbox will automatically be saved to all your computers, phones and even the Dropbox website. Invite your friends, family and teammates to any folder in your Dropbox, and it'll be as if you saved that folder straight to their computers.

If you wish to design collaboratively we propose the following tools:

Kerpoof

Kerpoof is all about having fun, discovering things, and being creative. Here are just a few ways that you can use Kerpoof:

- Make artwork (even if you aren't good at drawing!)
- Make an animated movie (really! it's easy!)
- Earn Koins which you can trade for fun things in the Kerpoof Store
- Make a printed card, t-shirt, or mug
- Tell a story
- Make a drawing
- Vote on the movies, stories, and drawings that other people have made

URL: http://www.kerpoof.com/

Sketchfu

Draw any thing Online and share with friends. Captures Video of your Drawing & can plat it later & share it with your Friends that how made this Sketch

URL: http://sketchfu.com/

Sketchcasting

Sketchcasting is a new way to communicate something online by recording a sketch, optionally with your voice speaking. Any sketch can then be embedded on your blog/ homepage for people to play-back, and you can also point people to your sketchcast channel here.

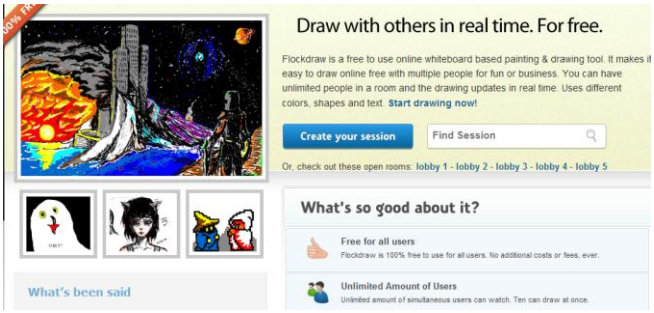
URL: http://sketchcast.com/

Scribble

It is an open canvas to create and share drawings. One of the best features of this app is the ability to see how each drawing was made as Scribble redraws the picture stroke by stroke.

URL: http://grant.robinson.name/projects/scribble/

Flockdraw



Flockdraw is a free to use online whiteboard based painting & drawing tool. It makes it easy to draw online free with multiple people for fun or business. You can have unlimited people in a room and the drawing updates in real time.

URL: http://flockdraw.com/