

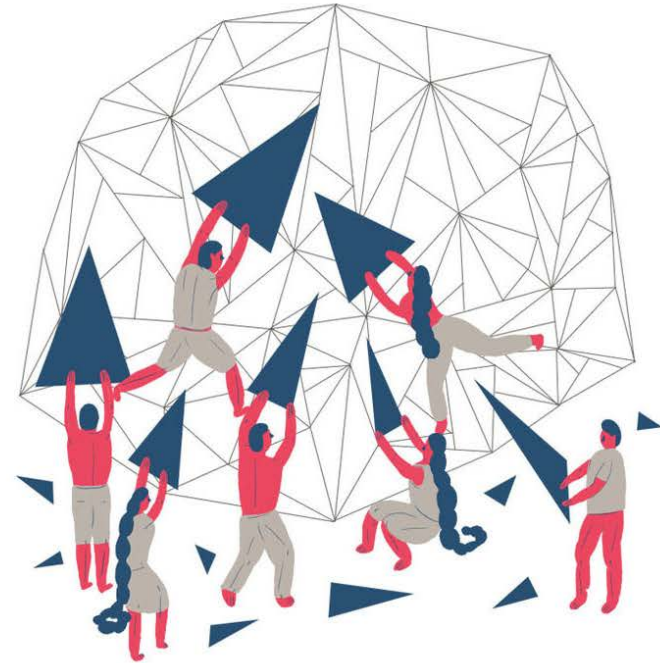
MoDulate

a proposition for a redefined
learning and sharing space

Vision

We envision a system in which any room can become a studio - people can set up groups and start meetings quickly and easily. This system should be accessible anywhere, anytime, and contain the vital information to deploy resources and ideas, and from those create an ecosystem that encourages sharing and accessibility to people and knowledge.

- *Facilitate group work by reducing administrative work and preparation*
- *Create an environment to share ideas*
- *Allow for easy communication between people & groups*
- *Allow for any room to transform into a studio workspace*



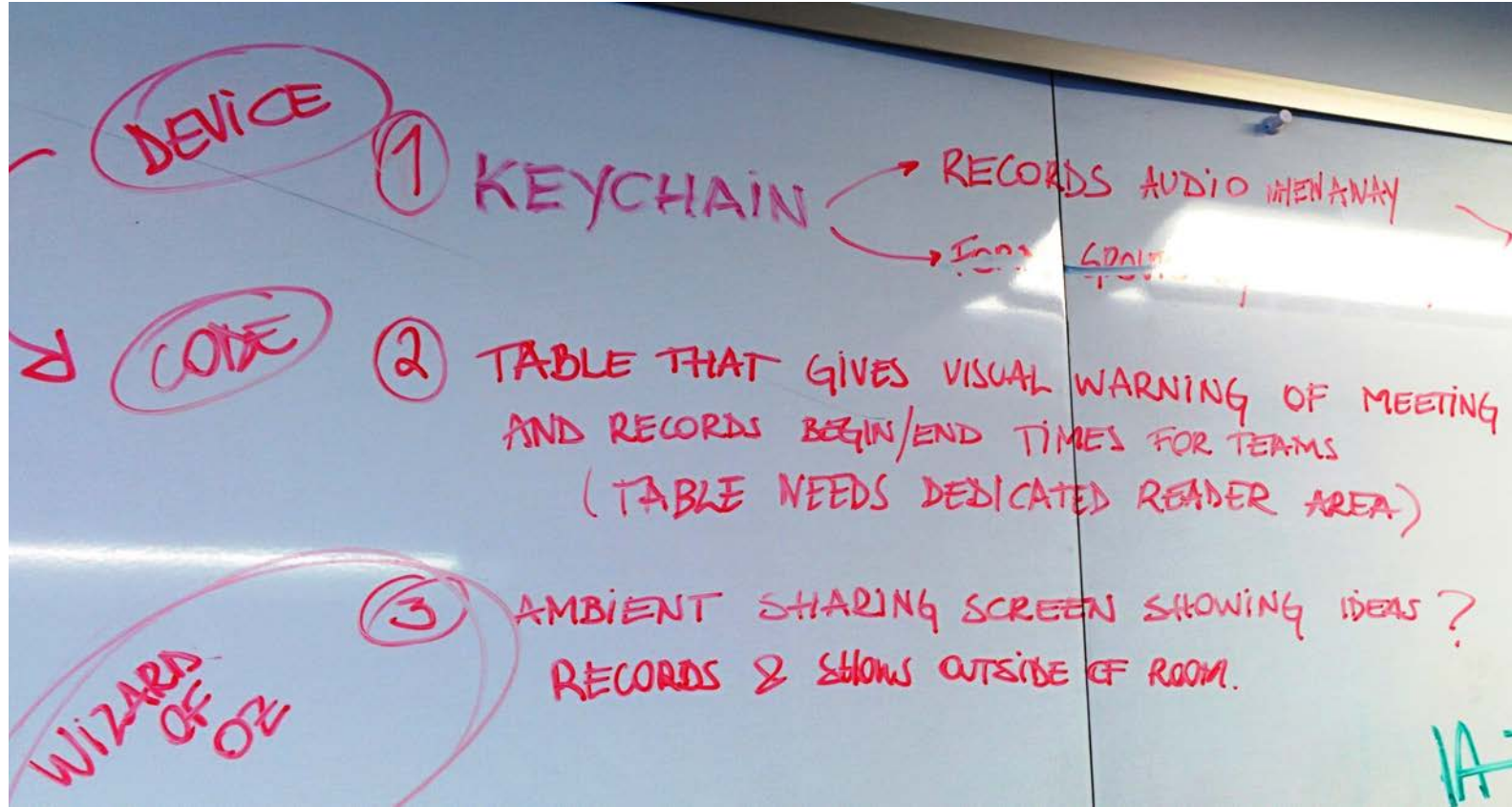
Ideation *(keywords)*

Vision key concepts: defamiliarization, cooperation, sharing

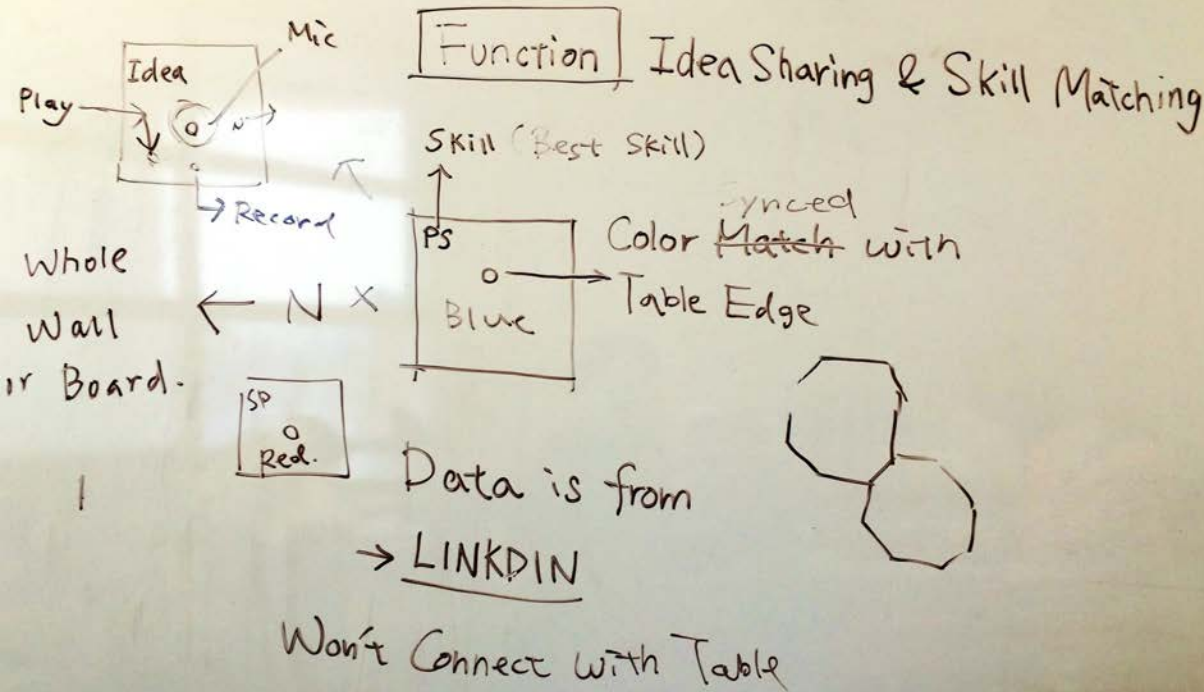
Sharing bubbles | Pen | Connected table + wall + whiteboard | NFC tables + objects

Modular space + tables | Work progress status

Ideation (brainstorming)



Ideation (brainstorming)



VISION: facilitate collaboration and group work in studios & other communal areas by reducing administrative work & preparation - thus allowing groups to "hit the ground running" and expedite work.

THIS REQUIRES AN INTEGRATED SYSTEM THAT DOES THE FOLLOWING:

- ④ KEYCHAIN: acquires & stores student information - affiliation, skills, ...
- ⑤ READER MODULE: reads keychains → forms groups automatically → starts a Box doc. for the group → stamps meetings start & finish.
- ⑥ AMBIENT DEVICE: broadcasts assistance requirements if any skillsets are missing for the group to move forward.

MODULE



The ecosystem



KEY



IDEA



[KEY]

Function

Student ID

Wearable

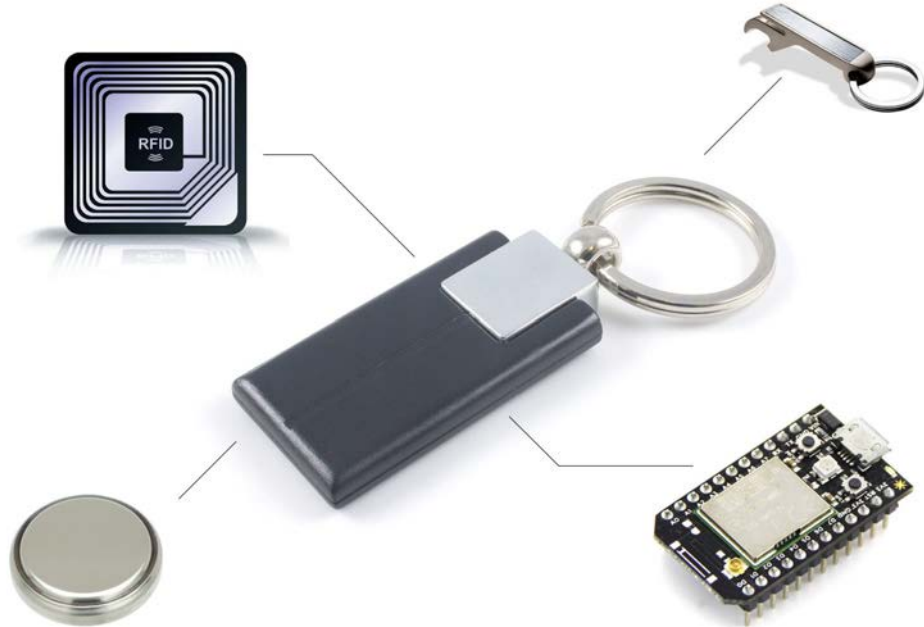
Components

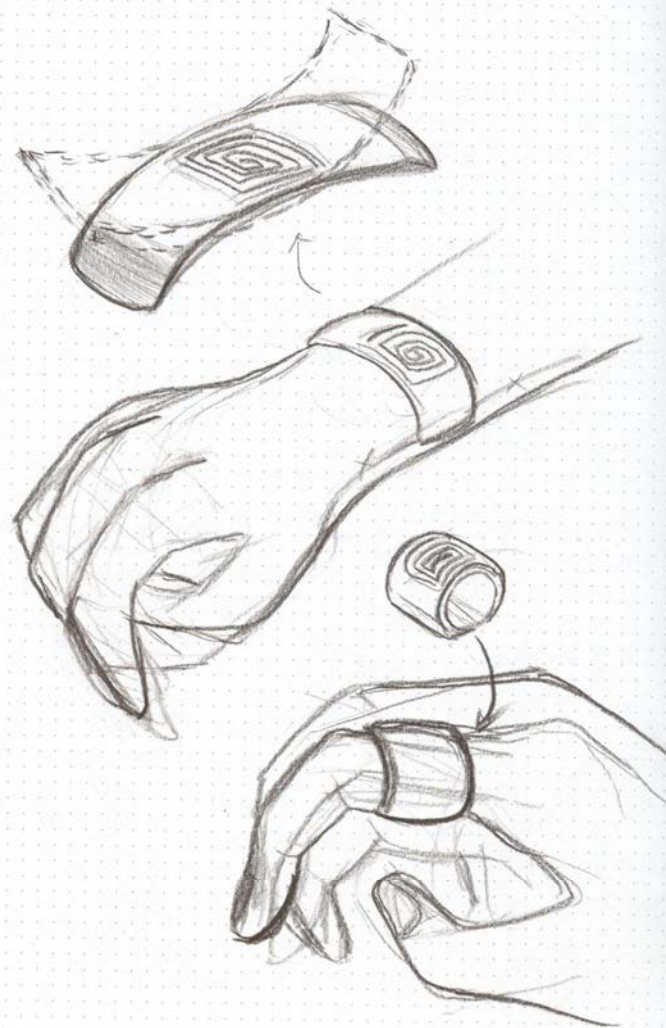
RFID Chip

Bottle Opener

Spark Core

Coincell Battery





Sketch





Prototype



[MODULE]

Function

Creates **Google group**

Records key and audio

Uploads ideas to CMU box

Components

RFID reader

Spark Core

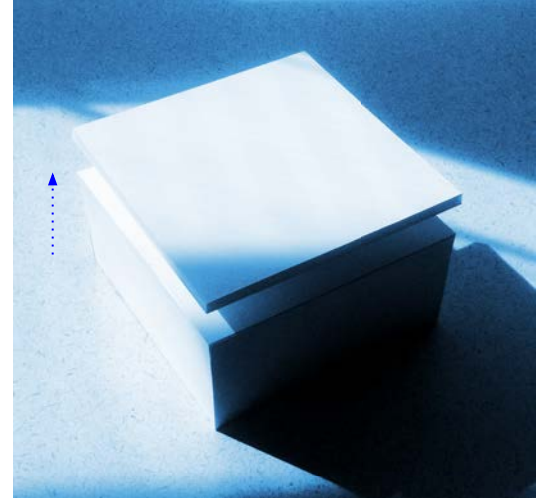
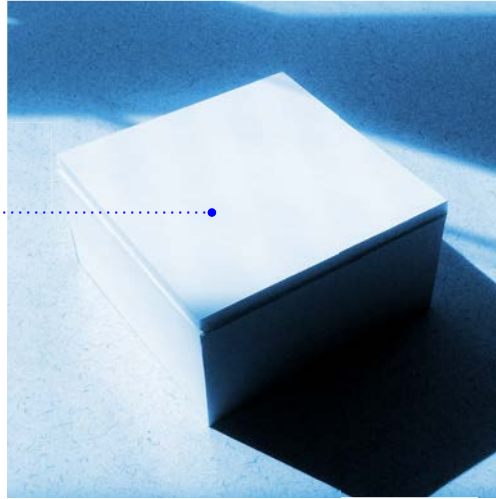
Two buttons

Microphone



How to create a group

RFID reader



- Create a group on the CMU cloud- "BOX"
- Record meeting audio automatically

Prototype

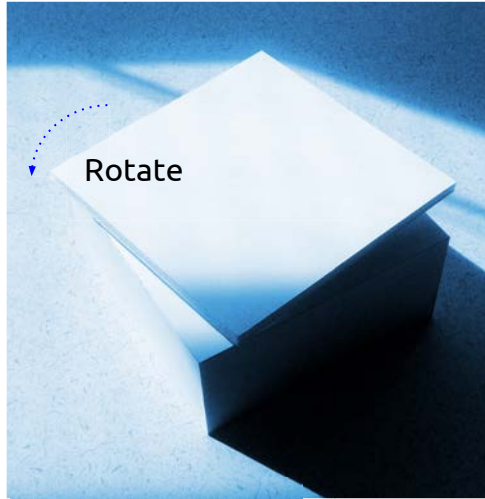


How to upload ideas

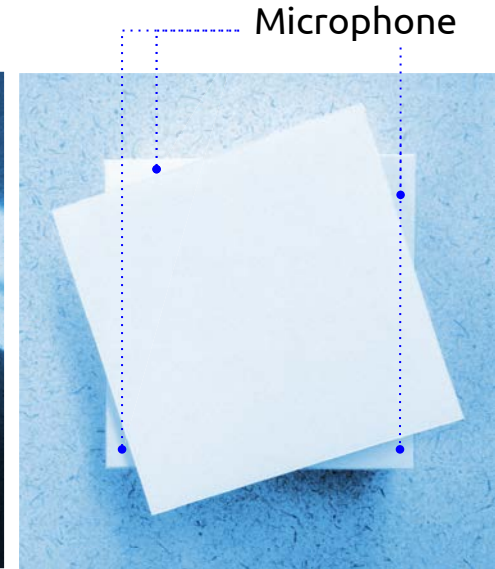
Four types of idea categories

- Design/ Art
- Engineering
- Computer science
- Business

The module could be rotated to four angles as switching to the four different idea categories.



Perspective

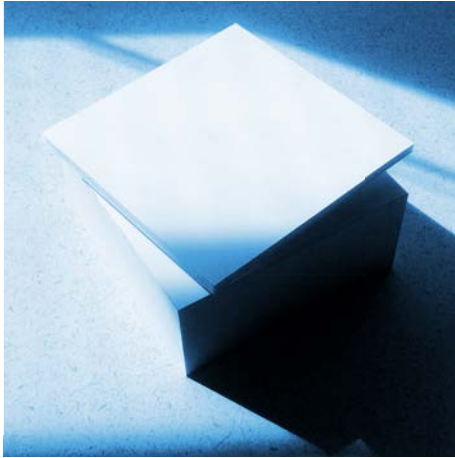


Top view

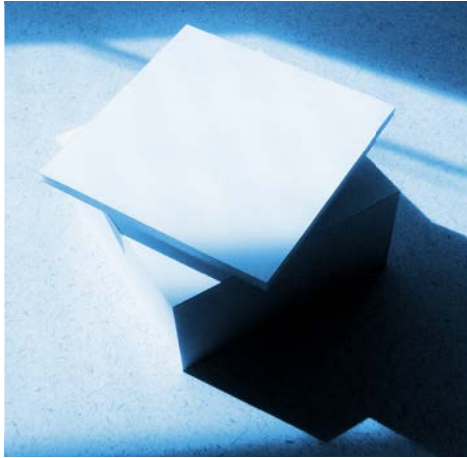
Prototype



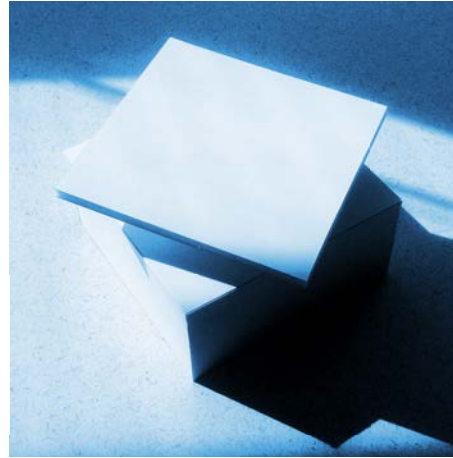
How to upload ideas



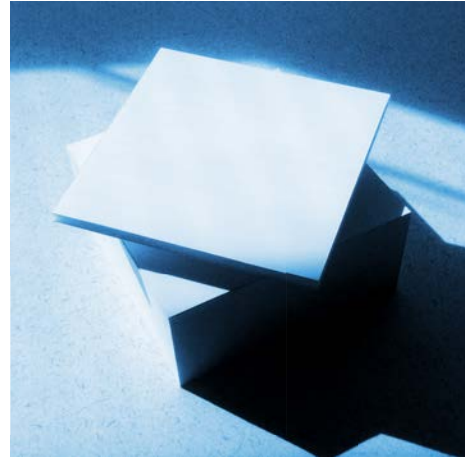
Design/ Art



Engineering



Computer science



Business



Prototype

[IDEA]

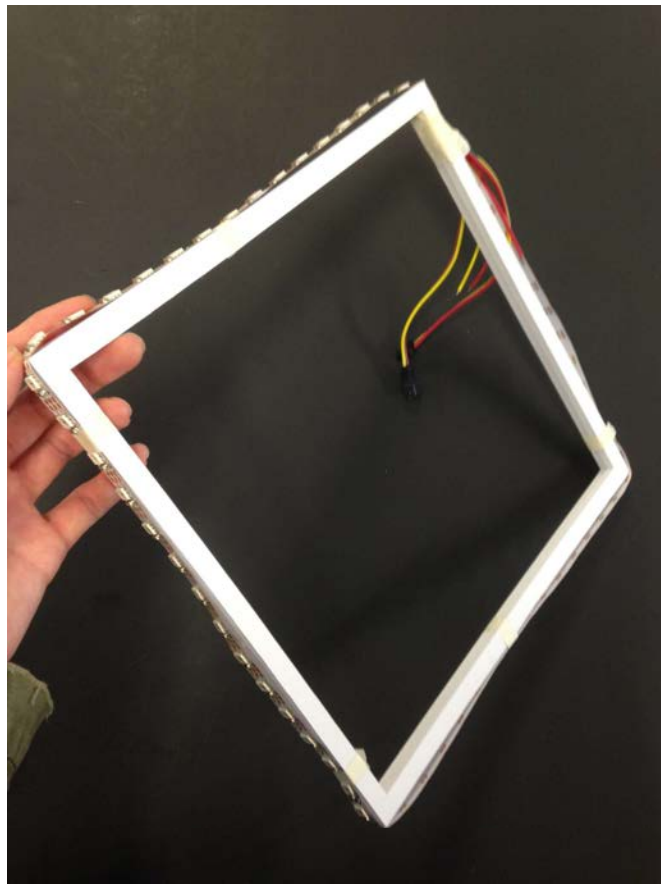
Function

Visualizes idea quantity
Encourages collaboration

Components

LED strips
Spark Core
Foamcore





Prototype

Subgroups

Keychain [Marc, Ruyao, Mo]

- Automatically creates (Box or Google) group // saves meetings times and people present
- Functions as student ID
- Attendance tracking

Module [Pedro, Pei, Faizan, Sanika]

- Voice recording of ideas // sends them to database (Box or Google) // voice to text tech.
- can be deployed onto any table, whiteboard or other surface

Idea sharing display [Hanyue, Michael, Louise]

- LED color displays number of ideas available on database (Box or Google)
- Glows brighter as more ideas get added to shared database