

Product & Service innovation

Team the Edge

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Agenda

Introduction

Problem

First Prototype

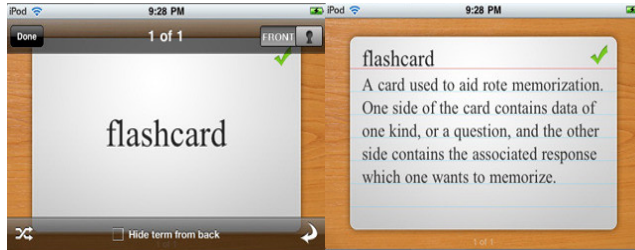
Iteration

Second Prototype

Final Product

Introduction

Existing Main Electronic Linguistic Devices



Flash Card Application



Device Name: Word-Sketch



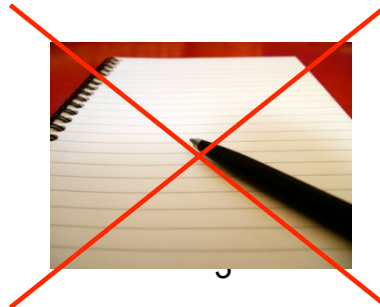
Device Name: Handy-Lab



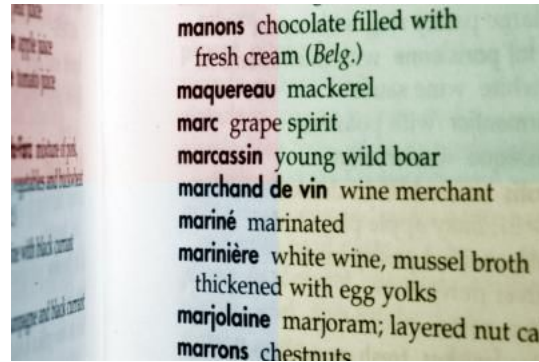
Device Name: Blinker

However

No Existing Main Electronic Linguistic Devices has the feature of sharing the 'Real Life Feeling' of analog style of Pen+Notepaper but were rather education devices mainly dependent on the software

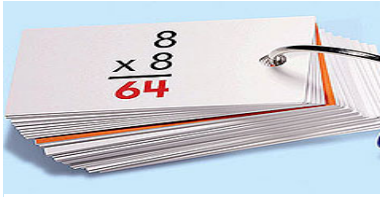


Problem



- » **Want to have effective digital studying tool that has very simple interface , not complicated**
- » **Development of technology seems to eliminate the strengths of analog tools (Becoming Too Digital!)**
- » **Want to express Notepad + Digital that can bring 'Real Life Feeling' of writing down**

Analysis to Create Electronic Flash Cards



"Writing Down Leads to greater memorization, the same way that visualizing the performance of a new skill can actually improve skill level."

-Lifehack Sep.28.2007

- » A lot of people use flash cards to memorize definitions.
- » High visual learners get more out of creating a flashcard rather than using them.
- » Effective memory-aid tools that can help students learn new material quickly.

"Visual learners see the information they need to recall on flash cards, whether in an image or a word or two"

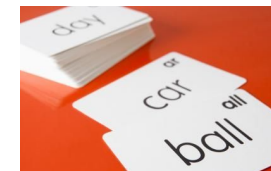
-Cynthia Gomez, eHow Contributor

"The contribution of vocabulary flash card in teaching vocabulary to students led to a higher level of vocabulary improvement"

-Maryam Eslahcar Komachali
(The Effect of Using Vocabulary Flash Card on Iranian Pre-University Students" Vocabulary Knowledge)

Cons of Analog Style Flash Cards

- » Burden, carrying it around
- » Hard to look for words
- » Limited to only one word



The Edge

First Prototype

Electronic Linguistic Device Prototype 1



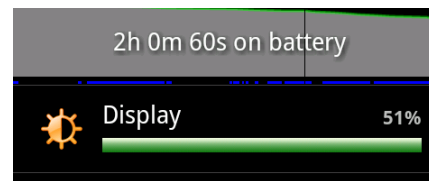
Electronic Flash Card



- » Two-sided Screen
- » Entirely Folded Screen
- » Touch pen available
- » Easy to utilize
- » Creating own flashcard with own writing

Cons of This Electronic Product:

- » Thick
- » High Usage of Battery
- » Lack of Portability
- » Lack of Feasibility
- » Too limited usage
- » Not very suitable to Pen+Notepaper style



Existing Product Analysis



Handy lab



Word sketch



Blinker

Strong Points

- » Quality of study contents
- » Light Weight(90~140g)
- » Compact('3.5)
- » Continuous S/W upgrade

Weak Points

- » Expensive
- » Resistive touchscreen
- » Fragile exterior
- » Ineffective Multimedia function utility
- » Low memory size
- » Low capacity of battery

Existing Product Analysis

Smart device apps



Strong Points

- » Cheap Price
- » Customization
- » Online Access Function

Weak Points

- » Limited contents
- » Interface
- » Distraction

Second Prototype

Iteration – Prototype 2

Need for Thin and Wide display

Adopting new technology → Flexible display



Expected advantage:
Durability and High Portability with expressing live color

Iteration – Prototype 2

For software function → studying-aid software chip
(similar to Nintendo's game pack)



Eliminating other features
(e.g. MP3 player, Video player, DMB and etc.)

→ Possible for lower cost, thinner and lighter device

Possible Drawbacks of Prototype 2

Flexible display is not commercialized yet

- » Expected to be commercialized next year
- » Price will increase due to adopting new technology
- » Consume too much battery because of “color”



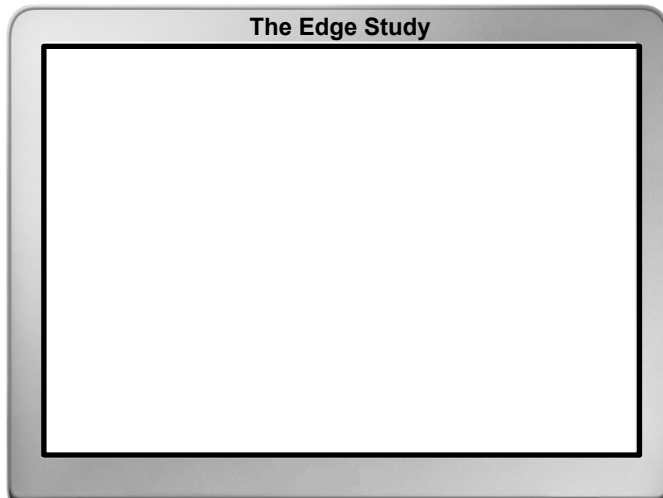
Final Product

Final Product

✓

“Real Life Feeling Studying Device Only Made for Studying ”

‘The Edge Study’



‘The Edge Study’



Specialized Touch Pen



Side View of ‘The Edge Study’

E Ink

11 inch
Display

Long
Battery

Thin & wide

Pen
Sound effect

Downloadable
Software

Final Product

✓ Software



- No Additional function (Mp3, Camera, Internet, Media player etc.)
- Only study function (Dictionary, Pronunciation, Regular test, Writing pad, etc)
- Download software program (Customization & Business model) – English, Japanese, Chinese, etc

Final Product

✓ Business model

- Hardware



- Program(Software)



