Futuristic Computing Device For Women

Degree Project Stage 2

Guide: Prof. Ravi Poovaiah

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Overview

- Methodology -
 - User group -
- Need identification -
 - Aim of project -
- Interface detailing -
 - Scenario -
- Technologies used -
- Acknowledgements & References -

Introduction

- Personal computer has changed the society and our lives.
- We are living in the information age which has revolutionized the way we connect to the people as well as business.
- Future is about the power of ubiquitous computing and networking
- The new generations of the devices are emerging which are not general purpose machine but they are clearly defined hardware and limited functionality.

Introduction

History of computing devices

- After 1980's, the evolution of PC's has given quantum leap to the development of industrialization and world market.
- The development of PC's in the field of communication and collaboration has taken productivity to next level which has change the way each segment of the market works.
- Internet has given flexibility and flow to the information, which is job fulfilling in all respect.











Before PC Era Apple II The Commodore PET

Toshiba 3100 MIT Media Lab

Introduction

Current Scenario

- The computer era is ending not because it has failed but because the Computer era itself has given birth to a new era.
- The computers become a component of the product instead of the product itself.
- Post PC devices made data processing & communication more mobile & universal, instantaneous and easy.





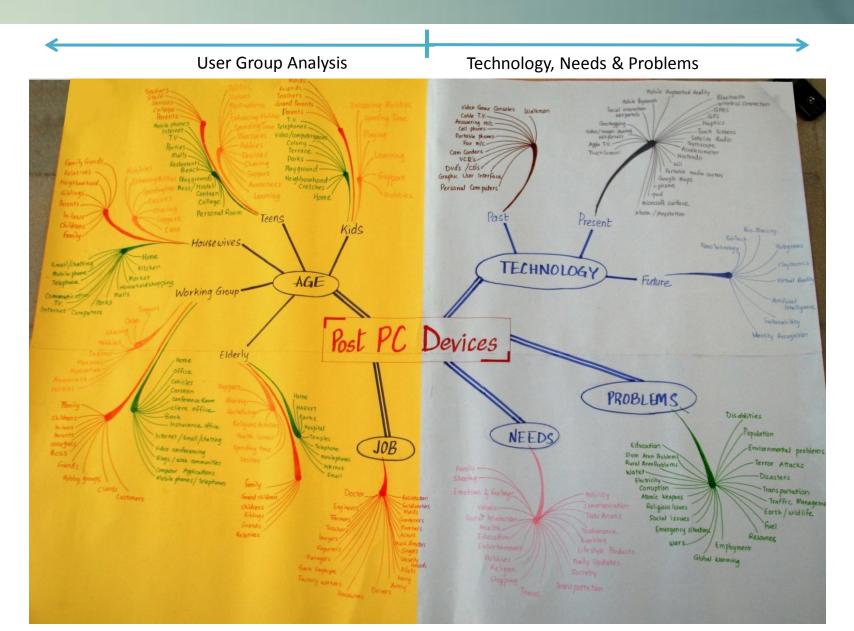








i-Pod X-box Apple TV Microsoft surface Kindle PDA

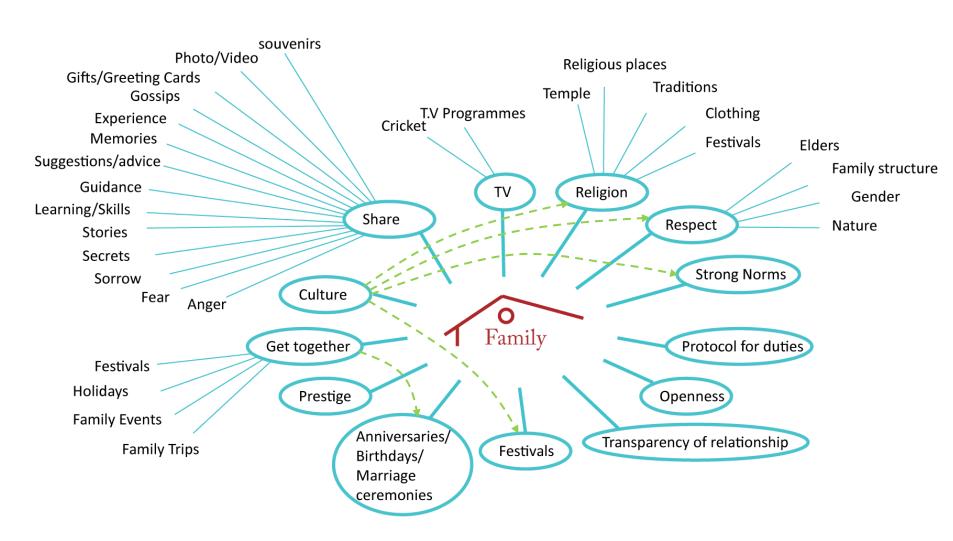


Why women as a user group?

Because, from Indian perspective

- wide role in the family
- responsibilities varies from personal, kids, family, relatives
- Very less work has been done

Cultural Aspects



Reports



Jodo

Ram Brijesh, Rashmin Raj, Anupama Kamath Visual Communication



Sharable calendar

Ram Brijesh, Anupama Kamath Visual Communication

Reports



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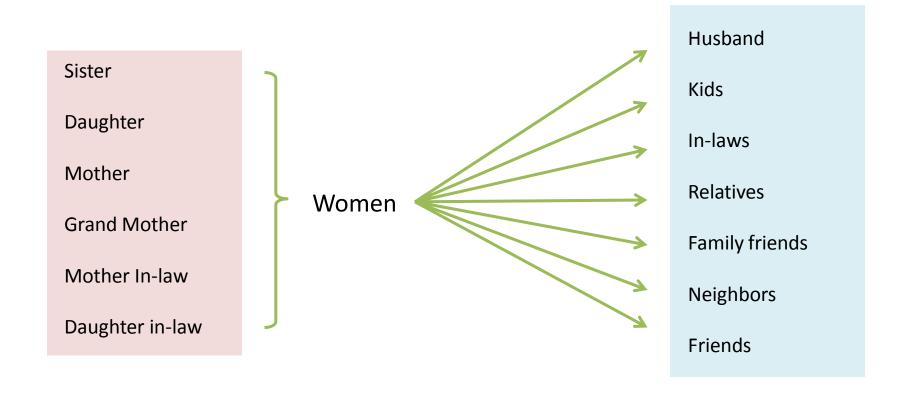
Dispersed Families

- The family is a fundamental social group
- Openness
- Numerous festivals
- Several languages

Findings

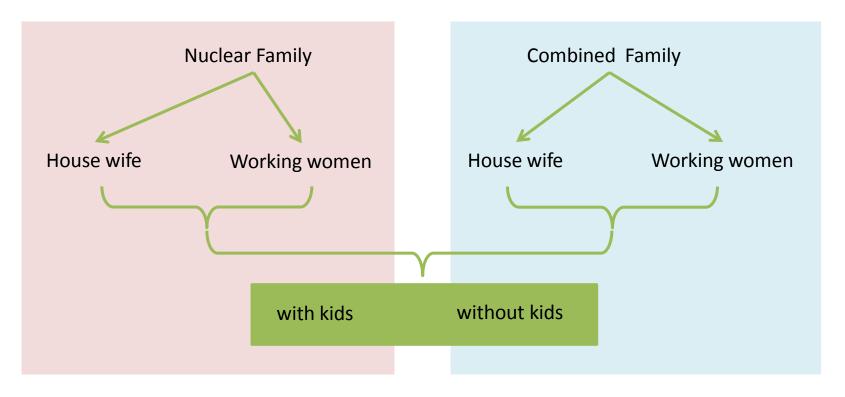
- There is nothing in a family that is personal it is shareable
- Almost every Indian family has a native place
- Openness of emotions restricted with environments
- Transparency of relationship difference in parent to child and child to parent.
- Responsibilities do not end with the person growing up

Role of Indian women



User group span

Women



User environment

Physical Environments

Home environment

Neighborhood

Market/Malls

School

Parks

Temple

Extra activities

(Gym, yoga, cooking class, singing class...etc.)

Emotional Environments

Husband

Children

In-laws

Parents

Siblings

Friends

Neighborhood and Relatives

Responsibilities

Take care of kids

- help in studies, teach them social & moral values

Cooking food for family

Take care of family member during unhealthy health conditions

Shopping

- Daily need things, other shopping

Cleaning & decorating the house

Cleaning utensils & clothing

Reminding or paying bills

- electricity, telephone bills...etc.

Take care of pets

Needs

Good Food

Education

Responsibility

Care

Sharing

Shopping

Health issues

Comfort

Savings

Insurance

Social interaction

Safety & Security

Show off

Prestige

Jealousy

Maintenance

Cleanliness

Home decoration

Clothing & jewelry

Ways of information access

Gossips

neighborhood

Kitty parties

Family functions & meetings

Marriages

Parties

Trips

Shopping

Temple

T.V News

Telephone

Newspaper

Internet

Mobile phone

Calendar

Reading books, magazines

Products

T.V

Telephone

Computer

Mobile phone

Music players, i-Pod

Calculator

Cars, Mopeds

Microwave oven

Washing machine

Refrigerator

Food processors

Other kitchen gadgets

Kitchen utensils & containers

Life style products

Working women

Good with handling problems

Express feelings in better way

Share responsibilities

Dedicated

Very busy

Clear thinking

Multi-tasking

More committed

Natural Home makers

Capability of performing at double shift

Full time assigned to tasks

Good managers

Committed to job

Independent

Sophisticated

More trustworthy

Professional during work

Well aware of technology

Multi-dimensional skills

Practical thinking – Extremely emotional

Office

Compromise on 'social & public relations'

After job, spent complete time with family

They help imparting values & traditions to children

They fulfill the emotional & psychological needs of family



Women's Day 8Th march

Source: Times Of Indian, DNA, Indian Express



What are the pros and cons of being a woman in the field of politics?

I have never felt different from anyone in my field of work just because I'm a woman. I attribute that to the way my parents brought me up. The only time I felt I was not being taken seriously was because I was very young and inexperienced.

Did you have to compromise to achieve what you

I don't believe in compromises, I work with priorities. The day I feel I have to compromise with either my work or

I think education is the key to empowerment of women

Priya Dutt, Member of Parliament

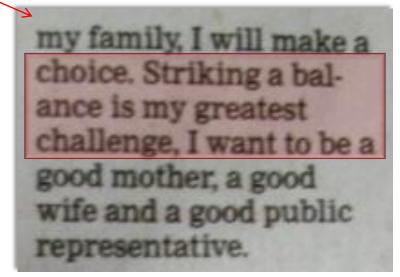
y family, I will make a be able to do what I do. choice. Striking a balance is my greatest challenge, I want to be a good mother, a good wife and a good public

How do you manage your hectic schedule as wife and a mother? I schedule my life a lot around my kids. I try and either drop my son to school or pick him up, sometimes he comes help groups is importo office with me, my lit- tant. I always give the tle one is just one-year- example of the Lijjat old. I know the time now will be tough though. Before elections, it always gets very busy, but I know I on vocational education will manage.

my greatest support and education and vocationwithout him I would not al classes for girls.

If I'm not around, my usband adjusts his chedule to be with the

What measures can be taken to aid underprivileged women to gain fi-nancial independence? think education is the key is empowerment of women. Also setting up vocational training and small-scale industrie and encouraging self-Papad success story, and wonder why a model like that cannot be replicated. I focus a lot in my district, where we My husband has been impart free computer





This mistress of spices ru

Mumbai's top woman chef. Madhu Krishnan tells Geetanjali Jhala what it's like to be in charge of a professional kitchen, something that has been a male

home are left for women to manage, but when it comes to a professional kitchen in a restaurant, the chef is almost always a man. An exception to this is Madhu Krishnan, executive chef at ITC-The Maratha.

It has been a tough path for her to prove herself at this level, 18 years after she came out of a culinary and hotel management programme. "Back then, women weren't encouraged to pursue the top job in the kitchen. Companies didn't want to invest in training a woman to be a chef, only to have her quit once she got married."

Another reason for the scarcity of women chefs around the world is that the restaurant kitchen requires cooking on a much larger scale than at home, which can get physically daunting for a woman. "Consistently high temperatures, sweat and insanely long

Madhu Krishnan was obviously not

deterred by any of this. "Personally, I found these very things exhilarating. I'm just doing what I love best." And getting paid good money for it. As a woman however she has had to

give up a lot that's dear to he, to be where she is. "I've had to sacrifice this with my kids (Anay, 5, and Inaara, 3). Very often, my kids are fast asleep by the time I get home," she says. "It is easer today because society has moved for yard and both parents jointly play a role in bringing up children. But I kitchen. A think many of the everyday issues are still in the mother's domain.'

She tries to make the most of the limited time she has with her kids. "Like we have pasta nights, where tossing pasta and a salad becomes a family affair. Anay is the official cheese shaver," she smiles.

As a gravitated interna

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W

For a woman. choosing to be a stay-at-home mum or pursuing a high-flying career after having a child can be the most defining decision. On International Women's Day, Kareena N Gianani presents the stories of three women in Mumbai who grappled with this conflict within them-

selves in differ-

ent ways

AT 2, MY DAUGHTER KNOWS I'M A CAREER WOMAN'

riya Badshah's two-year-old daughter, Sara, is as determined as her mother — try offering her a chocolate and she refuses polinely. The tot calmly accepts that any family member, even her doll, if not around, must have a busy day at 'office'.

"Inculcating such understanding at a young age hasn't come easy," says the 33year-old mother who juggles with her career as senior manag-

er of corporate communication at a leading life insurance company.

company.

Springing back to work after a fourmonth-long maternity leave seemed the most obvious choice

er, when Sara was a month old, Badshah met with an accident that rendered her immobile for six months. She went back to work after a year, limping and anxious about leaving her child back home. "I was head in a Twanted both, my wild and

Thus began her tightrope walk. On a flight, Badshah cannot afford to mull over files — instead, every minute is spent in the secting what Sara should be acro-

duc of to new heather building blocks must elements or whether building blocks must be introduced in her play. So, Sara finds missed two open house meetings at Sara's playschool, she herself couldn't bring herself to work due to guilt.

"It is a struggle to shake yourself up and stick to the choices you've made for yourself. For instance, I choose to weigh what I bring to Sara's growth as an independent, confident role model visā-vis a stay-at-hoom mum." She clarifies that she isn't running down a homemaker's role. "It's just that I wouldn't be a satisfied individual. Would I make a good mother then't he impressible."

opting for this path means wakin, up Sara as she slept in Badshah's lap becaus she had make a dash for office. "Excuss the cliché, but every mother wil tell you had to be the common to the common to

In these circumstances, it may be the easiest thing to overinduige so, but Badani stands firm. Instead of expension to stands firm. Instead of expension of the expension of the

'I HID IN THE OFFICE RESTROOM AND WEPT'

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Opting for this path means waking up Sara as she slept in Badshah's lap because she had make a dash for office. "Excuse the cliché, but every mother will tell you this — it felt criminal to wake her up when she looked so angelic... and I had to snap out of it the moment I got into my car and pored over office documents," she says, the conflict clearly visible.

Thus began her tightrope walk. On a flight, Badshah cannot afford to mull over files — instead, every minute is spent introspecting what Sara should be introduced to next, whether her diet needs new

shah stands firm. Instead of expensive toys and lavish parties, Sara's birthday gifts include spending 10 days out of town with her otherwise busy parents. "And no, the maid is not tagged along. It is me who Sara has at her beck and call," says Badshah proudly.

Archana Pal Singh

the next few years.

Finally, in 1998, when her younger daughter was twelve years old, Kulkarni, then 38, thought it was time to kickstart her career. With her profile, she soon landed a job as the editor of a magazine, but the affair was not as jubilant as one may presume - and it had nothing to do with the hostility she faced from her subordinates who chafed at having a boss with no prior experience at editing. "Soon. I was summoned by my daughter's teacher. Her grades were falling and she had suddenly become demanding. I constantly blamed myself for abandoning er." Kulkarni remembers hiding in the restroom at work and sobbing with suilt. It took patience to help her daughter understand her dilemma and appreciate her need to work.

Today, Kulkarni has no regrets. "My son and I chat about his first smoke, his girlfriends and so on. I doubt whether we would've had that rapport had I done a blink-and-miss role in his childhood..."

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Capability of performing at double shift Express feelings in better way Full time assigned to tasks Good with handling problems **Good managers** Committed to job Dedicated Independent Clear thinking **Sophisticated** Multi-tasking More trustworthy

Multi-dimensional skills Practical thinking – Extremely emotional They help imparting values & traditions to children

More commitment

Natural Home makers

They fulfill the emotional & psychological needs of family

believe only a woman can do

Nandini Iyet, undergraduate student at St Xavier's College, Bharatnatyam dancer, resident of Highland Park, Mulund Colony

Men can never do what women are doing nowadays. It is going to take a long time for our society to be egalitarian. In today's world it is not uncommon that women are getting out of the house to earn a living taking into consideration the increased number of working women. What I admire about them is the capability to perform double or working women. ber of working working at their job and being drained out commuting shift. After an enrowled buses and trains, they still get back to their work of cooking back home in crowder place of the back home and doing all the housework meals, taking care of children, taking care of husband and doing all the housework



First and foremost is that a woman thinks smarter than a man at all times. Women are able to grasp any situation and act or react accordingly. They express feelings better. They are totally aware of all aspects of a situation and hence are better managers. They are multi dimensional and acquire skills easily. What would baffle a man looks too simple for her. They are natural home mak ers and have immense self restraint. They are very careful with money. It has been scientifically proven that women are good



Shailaja Desai, Kuchupudi dancer and dance teacher.

Women alone can fulfill the emotional and psychological needs of a family. They can handle all kinds of problems much better and with unparalleled ease than any man. A family that is well balanced both in emotional and psychological fronts is ideal and leads a stress free life that ultimately leads to happiness Women keep their family together. They are better equipped to bring up children and they impart values and traditions to the children. These good values help the children in the long run. With so many negative influences in the world, women have a great role in moulding children, bring-



Cap Gemini, Vikhroli, Mother of two kids.

Women are more committed whether it is home, office or relationships. This commitment makes women more trustworth If you entrust a job to a woman b sure it gets done and in proper time and proper manner. Because they are highly focused and dedicated. They are experts in multi-



Dr Sujata Naik, resident and practicing homeopath at Mulund Past

Women can handle quantum of stress which men cannot even imagine. It is not just career and home front, they are capable of multitasking at so many levels and without the stress showing in their expression or demeanor. They will not allow the family or career to suffer due to their stress. While a man's stress gets reflected either at workplace or at home, the woman maintains her composure

She is highly practical on the one hand and extremely emotional on the other but is balanced at the same time. She uses her head and heart at the same time with equal skills. But a man will not know when to use his head and when his heart. A woman is a total package of IQ and EQ and relationship quotient too. She has all these qualities blended well in her. Endowed with empathy she manages people well.





Findings

- Worried for the kids at home
- Feeling of to be in touch with family, friends and relatives
- Very busy and hectic life
- Unable to attain the family functions
- Feel disconnected
- Most of the responsibilities are shared by both
- After job, they spend time together
- Evening & Weekends are most of time are spent to relax and shopping
- Need part time assistant (helper/maid)
- During pregnancy and after that, full time assistant (helper/maid)
- Very busy life
- Work in double shifts
- Committed to job
- Sacrifices
- Feeling of guilt
- Compensate out of guilt
- Keeping balance between Home and work

User group

User group

Nuclear family working women

- Responsibilities related to kids
- Busy and hectic life
- Act as connecting bond between the family members
- Balancing the home and office is tough
- They get disconnected from social and public relations

Concept brainstorm

Keywords for brainstorm

Helper in busy life

Massage recorder

Updating

Sharing

Keep in touch

Office

Work organization

Travel

Social interaction

Hobby enhancement

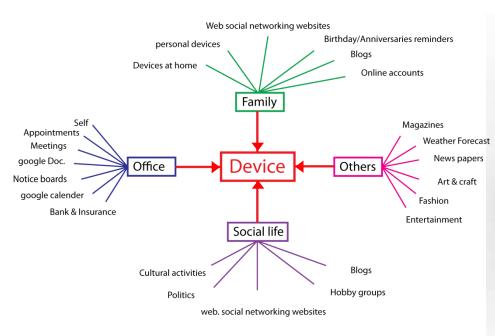
Learning new things

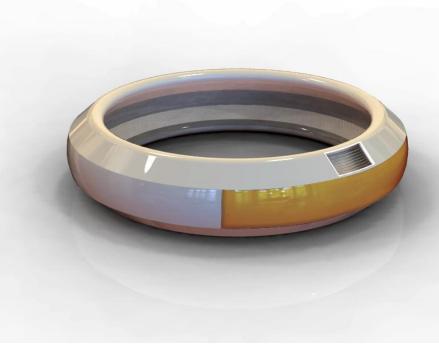
Support & care

Fashion Shopping

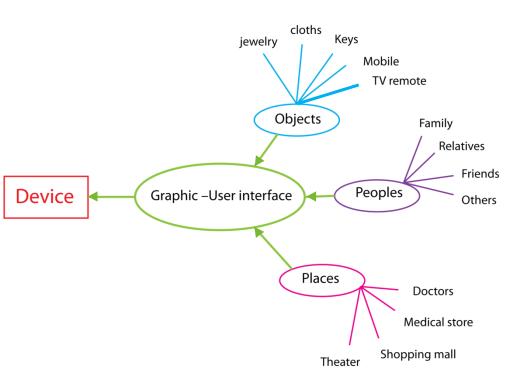
Entertainment

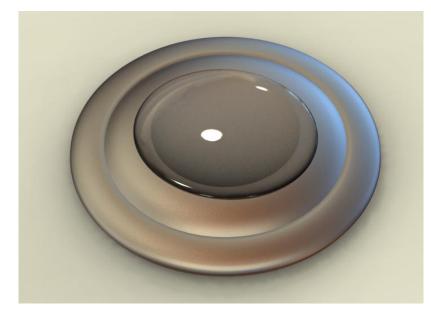
Updating device





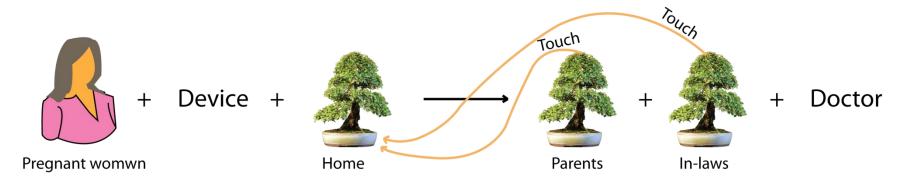
Searching Device





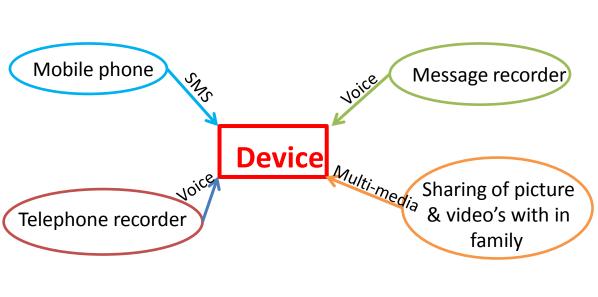
Touch tree

Touch will be dynamically transfer



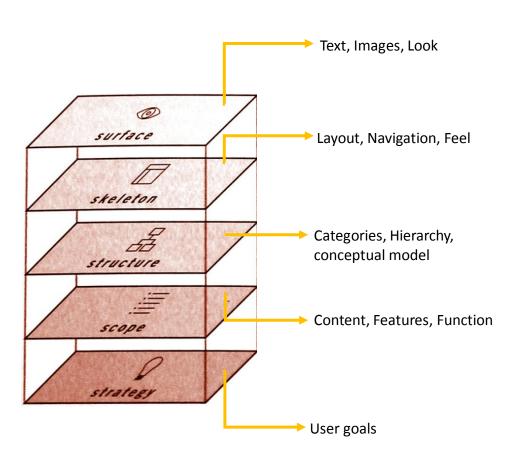
Growth of baby-Movement of baby-Health issuesGrowth of tree, height will grow, new leaves movement of tree branches, leaves data will be send to the doctor

Reco: Recording device

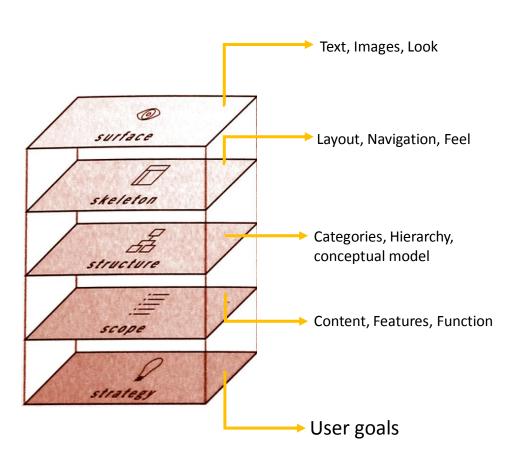




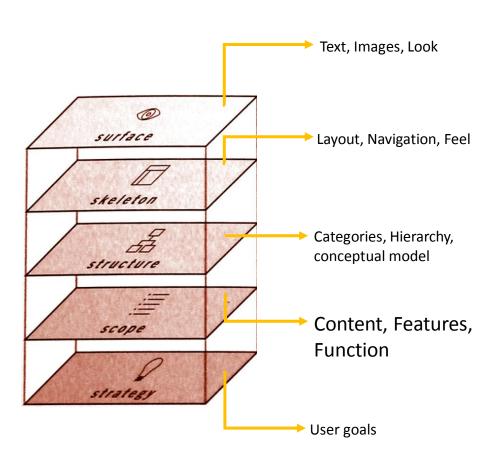
Final concept



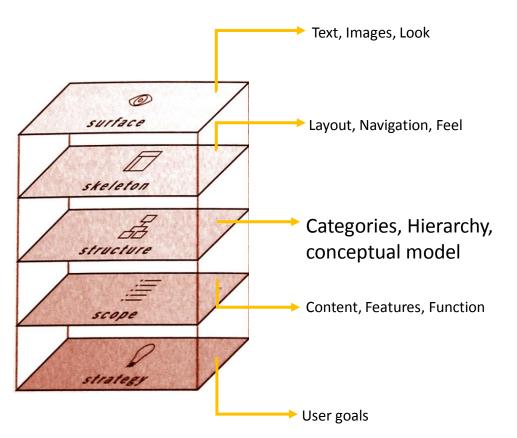
- Icons
- Colors
- Division of spaces on the screen
- Layout
- Affordance & Mapping
- Information architecture
- Feedback system
- The type of interface
- Applications like record call, alarm, reminder
- Communication
- Sharing of expressions



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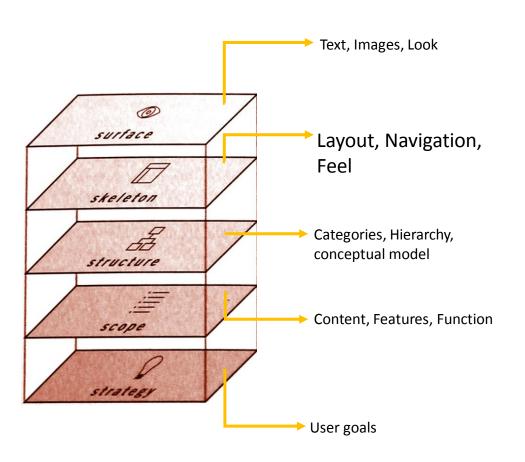
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- Icons
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- Information architecture
- Feedback system
- The type of interface
- Applications like record call, alarm, reminder
- Communication by reading and typing text
- Sharing of expressions

Methodology

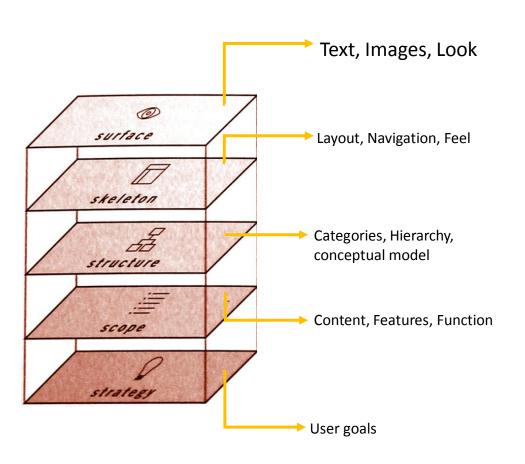
Jesse James Garrett's method (Elements of user experience)



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Methodology

Jesse James Garrett's method (Elements of user experience)



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Need:

The working women are concern about the family members (when they are at work place) especially for the key children, old parents or In-laws who are at home.

For Ex.

- Key children: are kids back from school? What they are doing? Food? Crying? Fighting with each other?
- Elderly: medicine timings, health care

Similar situation with the dispersed families.

Need:

Need of a system which will satisfy emotional needs like,

- being in touch, stay connected
- feel the presence of family members
- sense of togetherness

Existing ways of communication:

- Telephone & Mobile phones (Phone to phone)
- Email, Chatting & Video conferencing like Skype (Internet to Internet)
- VOIP services mobile phone (Internet to phone & vice-versa)

which allows user to communicate with other directly through visual and/Or acoustic mediums.

Need:

But still there is the need and opportunity for the

subtle virtual space which will give the **feel of being in touch** without actually entering into one's personal space.

Need:

The other needs are like,

- Getting updates (gossips) from neighbour, friends, relatives and etc.
- Also, allowing them to communicate with **new or existing devices**,
 - with the high level of personalization and customization.

This will make system more intimate and motivating to use.

Intent:

The concept is of a virtual system which allows user to,

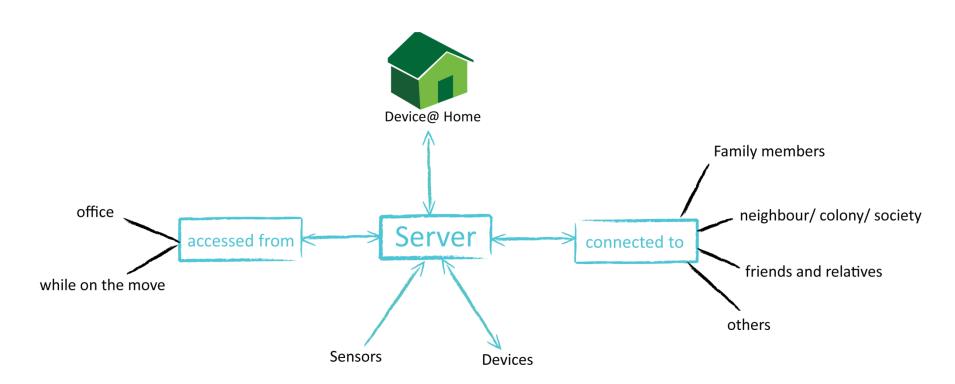
- stay connected with the love ones without actually invading the personal space.
- share & communicate messages and experiences in more personal and intimate ways using the new or existing technology.

Aim:

To design the system,

which will help user to stay connected to the dear ones and also to enhance the intimacy between the family members who wish to be in contact through feeling the presence.

Conceptual framework:

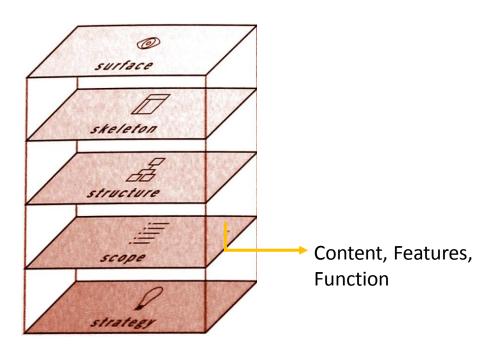


Design overview:

There are two sides to this system,

- Design of home based device
- Interface of the personal device like mobile phone which user can carry with her

Brainstorm for Content, Features and Functions for device:



- Feedback system
- The type of interface
- Applications like record call, alarm, reminder

Users & user tasks:

To accomplish user customization & prioritisation of task, system should

- Detect
- Identify the user

which results in, the frequent user can use device proficiently with minimum steps to reach up to the required information.

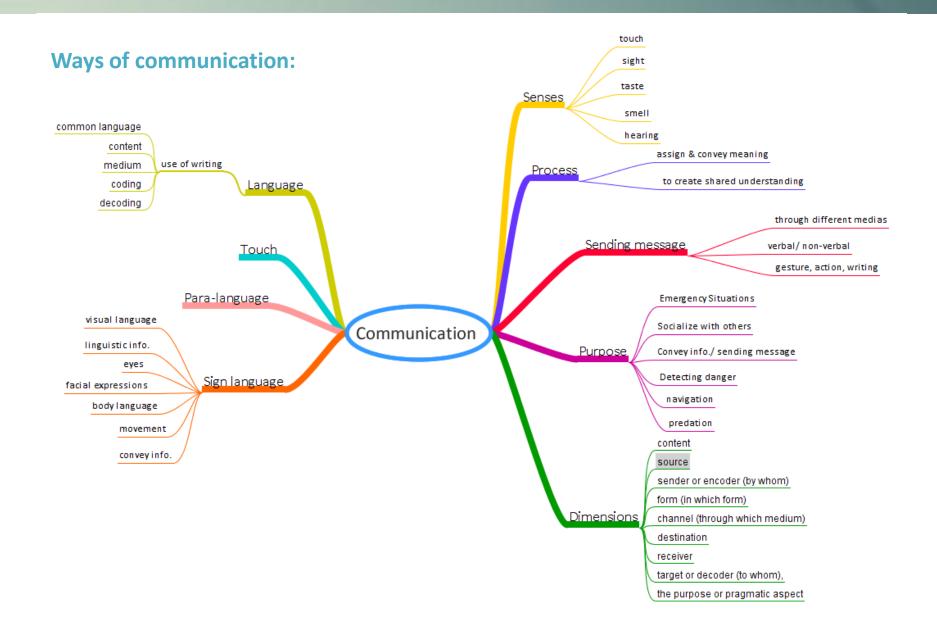
Also this will help in,

- personalization of the device
- motivating user to use the device
- efficient use

Ways of communication:

The existing ways of communication are through

- text messages
- audio messages
- audio + video messages



Findings from brainstorm:

- use of touch (Direct presence)

- sign language (Visual presence)

- body language

- movement

- visual language

- use of writing (written presence)

Privacy:

- user's control over sharing of data

Ex. Web Based communities

- Sharing photo's, documents and calendar

Privacy:

- user's control over sharing of data

Ex. Web Based communities

- Sharing photo's, documents and calendar

OR

- Make things abstract

Use of Existing technologies:

- Using the telephone and mobile phone communication

The concept is that, the same call can be converted or changed into the sharing of the information (which user concern about), which means that call will carry more channels of information to give the desirable output at receiving end.

Ex. Possible scenarios are,

- Device to Mobile
- Device to Telephone
- Device to Internet (VOIP)
- Device to Device

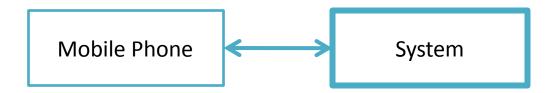
Possibilities:

- see the possibilities of conveying the information from home based device to the other communication devices.
 - Indirect communication
 - Direct Communication

Indirect Communication:

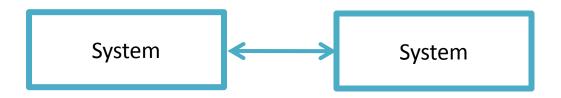
In this case working women can access the information about the kids at home on her mobile phone i.e.

- Physical presence
- Emotional level
 - the representation has to be very subtle and abstract.
 - to show the extremes of the emotions like 'happy and sad'



Direct Communication:

- Share the presence
 - use of touch (Direct presence)
 - sign language
 - body language
 - movement
 - visual language
 - use of writing



(Visual presence)

Direct Communication:

- Share the presence

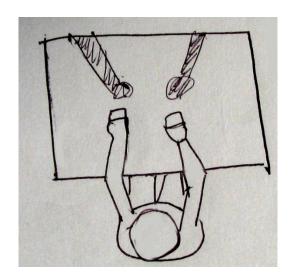
- use of touch

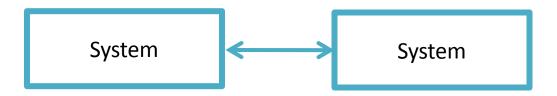
(Direct presence)

- sign language

(Visual presence)

- body language
- movement
- visual language
- use of writing



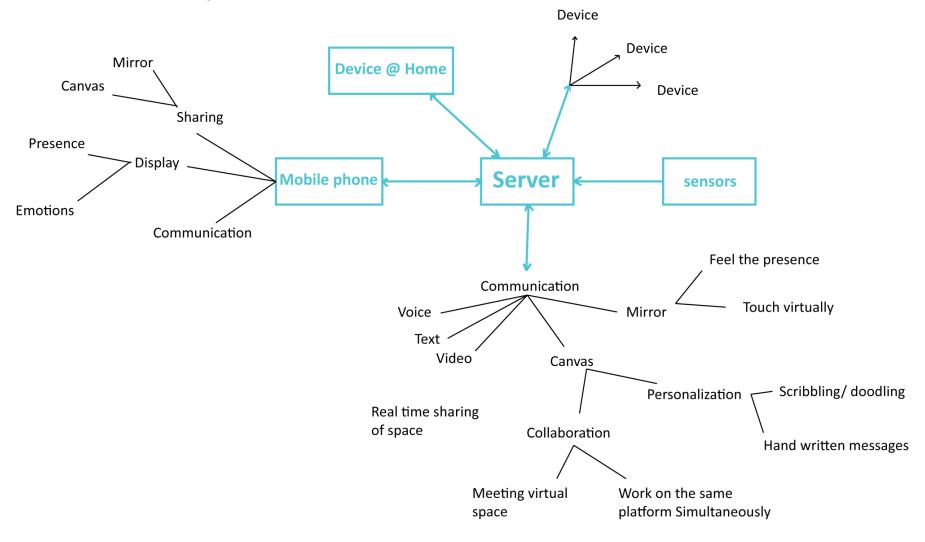


Features:

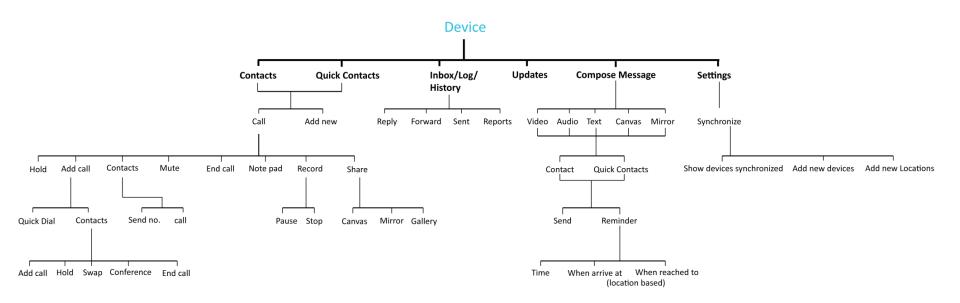
Device should

- Identify User
 - For customization of data according to particular user needs and tasks
- User location identification
- User emotion identification
- Communication
 - In-built telephone
 - Mirror option
- Networking & connectivity with
 - internet
 - the neighbours or colony people
- Common Message storage and reminder
- Updates from the different sources
 - relatives and family friends
 - hobby groups

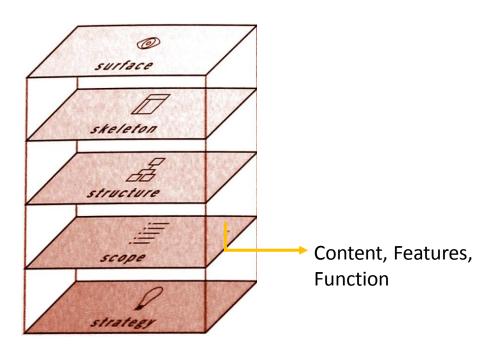
Detailed conceptual framework:



Information architecture for device:



Brainstorm for Content, Features and Functions for Mobile phone application:



- Feedback system
- The type of interface
- Applications like record call, alarm, reminder

Why mobile phone?

- mobile phone is always with the user
- Access information from anywhere, any time,
- user need not to carry separate device

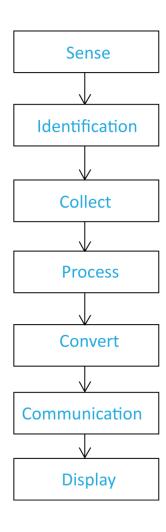
Technical reason is that, it is possible to acquire the required information with the **same mobile and network.**

Need:

- aim is not to design a spy device

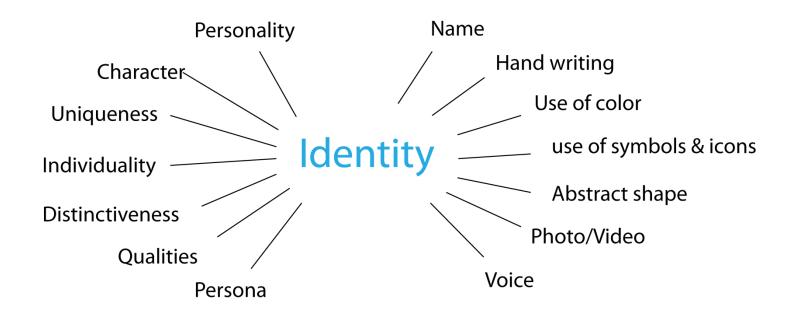
the information will get sensed, collected and processed to convert it to the abstract form at the server level and then can be communicated with the synchronized devices where it will get displayed.

Conceptual framework for the mobile phone data access:

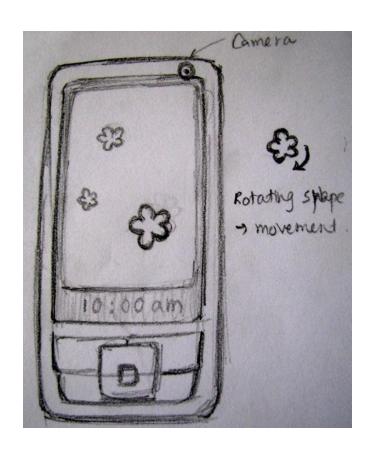


Presence:

The presence or identity of a particular person can be shown by



Presence and movement:



The movement or location of a family member within the house can be shown by

- the movement of the abstract shape, which may be shown with respect to the house map (i.e. exact location) OR
- simply showing by rotation or liner movement of symbol

At least, it should tell user that kid is fine and active in some way

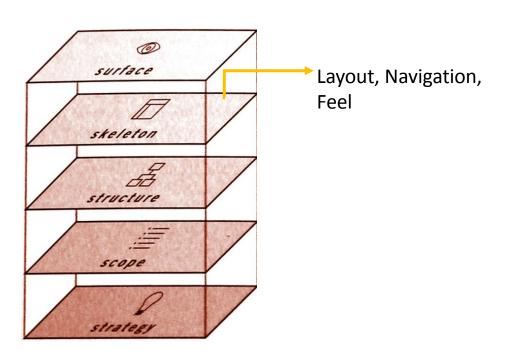
Location sensing:

To set the reminders

- related to the physical space OR
- for particular person

Features:

- Accessing and sharing of home device information on mobile phone
 - Communication
 - The location of family members on the screen
 - The emotional status of the family members
- Setting the reminder and sending message based on
 - time
 - location
 - Person
 - User customization



- Division of spaces on the screen
- Layout
- Affordance & Mapping

Interface design:

For designing the software interface for both the device and mobile interface, I tried to follow few guidelines from the Shneiderman's eight interface design guidelines.

- Strive for consistency.
 - Consistent sequences of actions
 - identical terminology
 - consistent commands
- Enable frequent users to use shortcuts
- Offer informative feedback
- Reduce short-term memory load
- Support internal locus of control
 - users the initiators of actions rather than the responders
 - keeping user in charge of system

Interface design:

The interface has to be consistence in

- layout,
- navigation
- appearance on device as well as on the mobile phone.

This will be helpful for a user to form the conceptual model while accessing the data from the device onto the mobile phone and vice-versa.

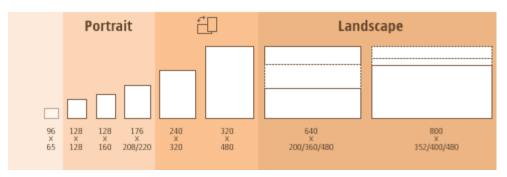
Interface design:

The consistency is totally dependent on the device's capability of input and out.

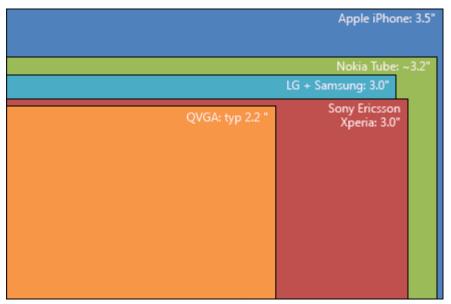
The task which will be getting performed on the home device has to be consistent with mobile phone but

has to be minimised in terms of data input and has to be maximised in terms of output.

Current trend in mobile phone screen:



Trend in mobile phone screen size (resolution wise)



Trend in mobile Phone screen size (Physical size)







READIUS

Interface design:

Before actually starting the interface detailing,

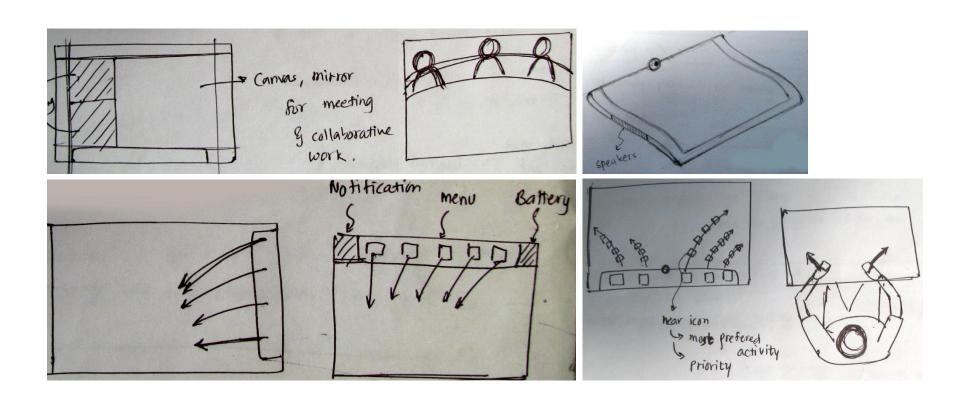
It was really important to decide the form of the device, so that the software interface like layout, navigation and feel can be designed accordingly.

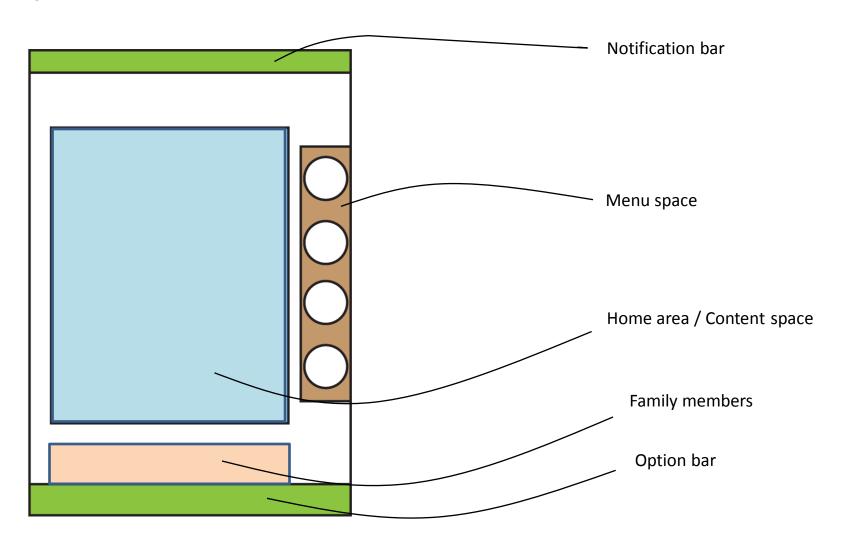
To have a integrated device, the hardware and software has to go together.

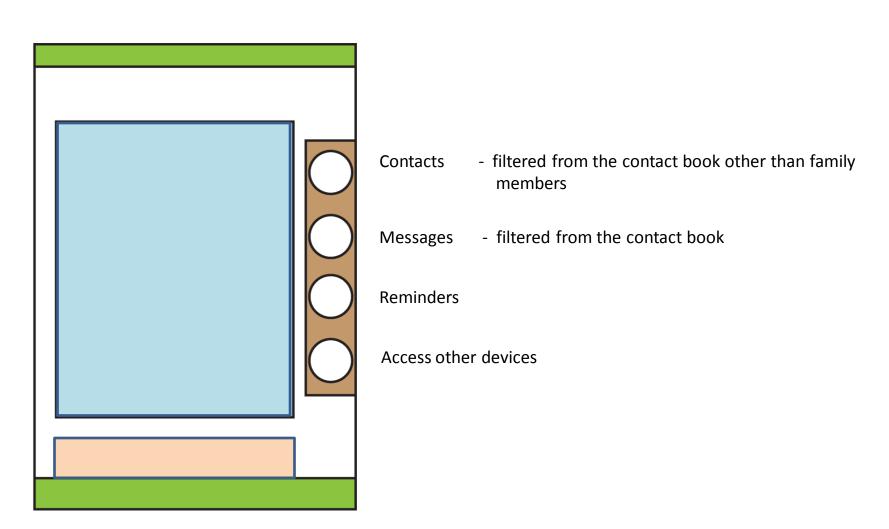
Brainstorm for device form:

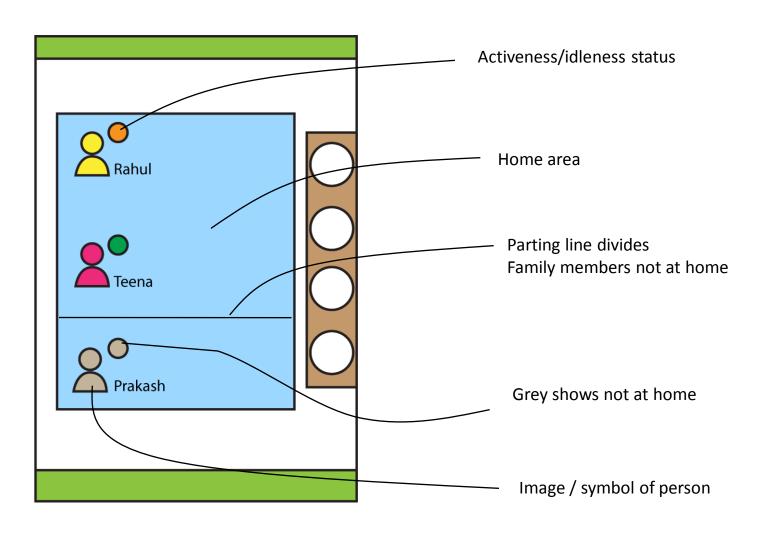


Need:



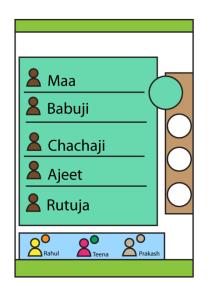




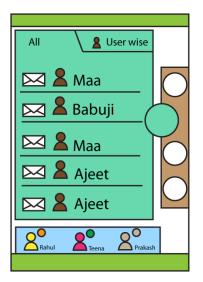




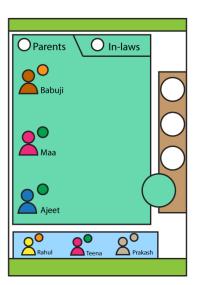
Mobile Menu



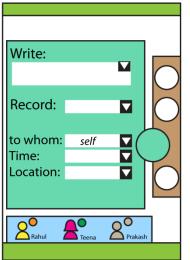
Quick contact

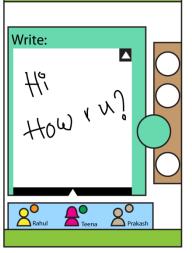


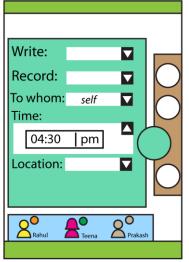
Filtered messages

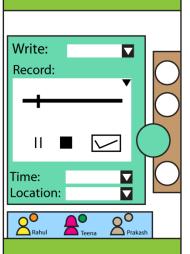


Access other devices











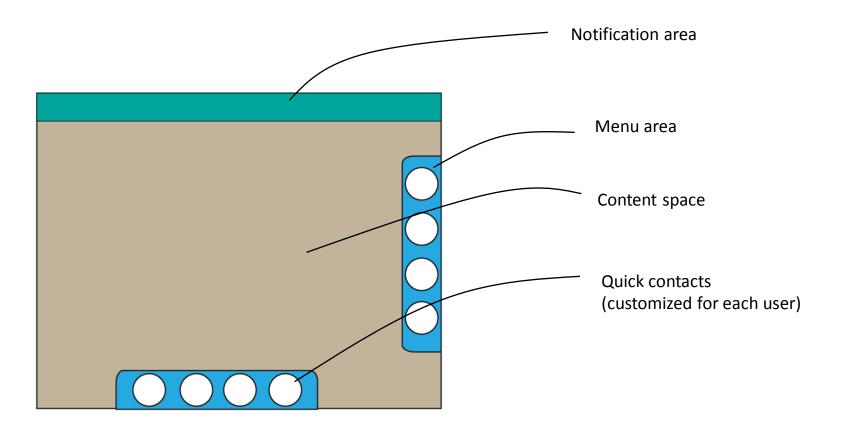
Reminders

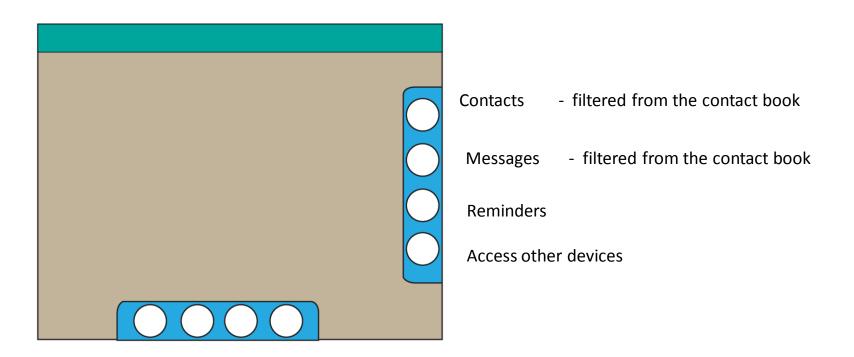
Scribble on screen

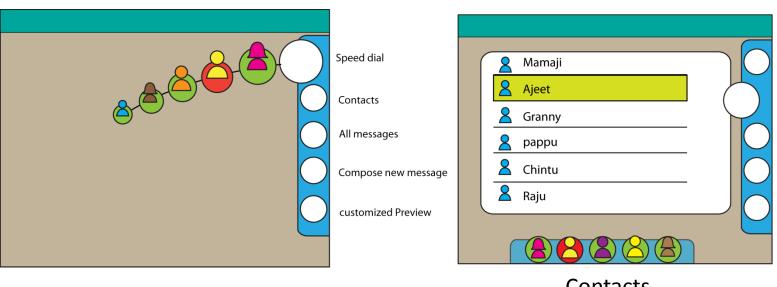
Time based

Voice message

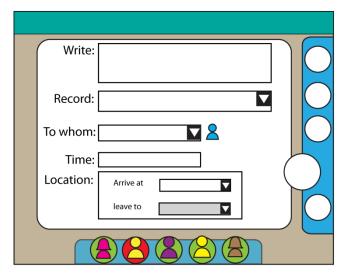
Location based



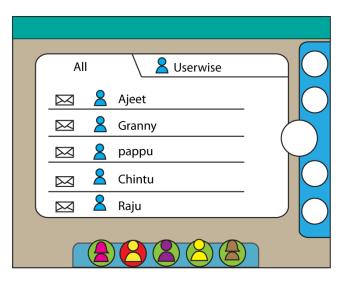




Contacts



Reminders



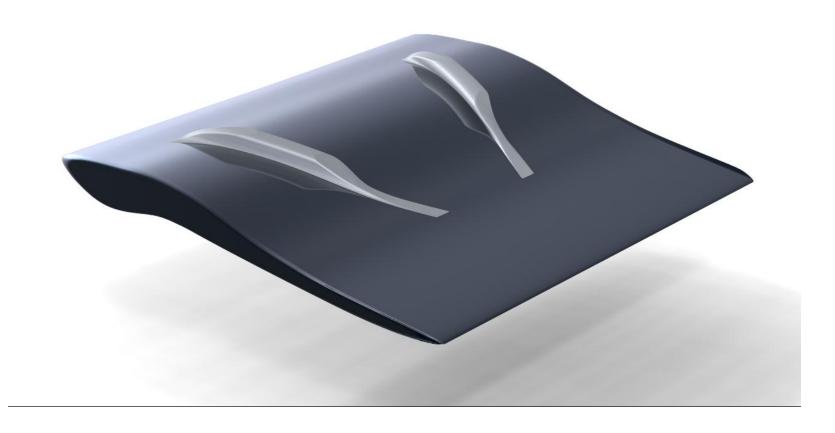
Message





Scenario:





Scenario:

Technology:

The need of sensors is to

- identify the user's presence,
- movement and emotions,

so that the data received can be processed by the server and can be accessed from the mobile phone.

Technology:

The concept was that, to use the temperature of human body to identify the presence, emotions and movement made by them.

The Infrared sensor technology can be helpful which is majorly used by military applications include target acquisition, surveillance, night vision, homing and tracking.

Non-military uses include remote temperature sensing, short-ranged wireless communication and weather forecasting.

Infrared astronomy uses sensor-equipped telescopes to penetrate dusty regions of space, such as molecular clouds; detect objects such as planets and stars.

Tracking:



Tracking the Target:

Stinger missiles look for the infrared light (heat) produced by the target airplane's engines and track the airplane by following that light.

The missiles also identify the UV "shadow" of the target and use that identification to distinguish the target from other heat-producing objects.

A Stinger missile needs a whole array of sensors, because its job is to track the target while it is flying.

Emotions:



Use the temperature of human body to predict the emotion of the user.

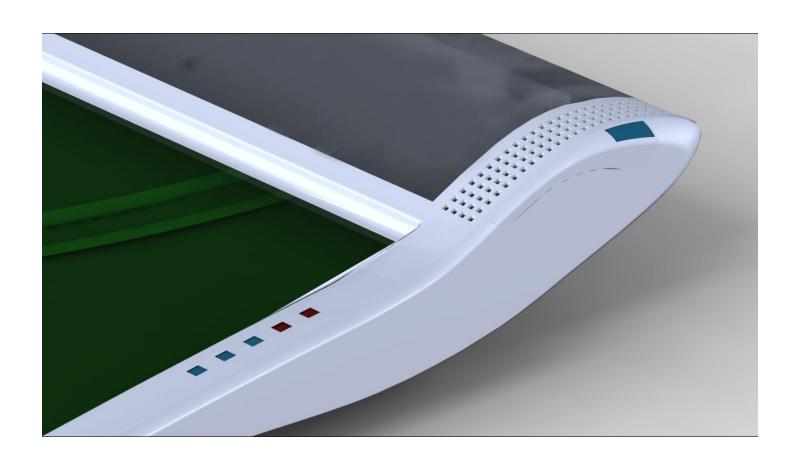
Human body temperature fluctuates with the emotion changes.



Scenario:

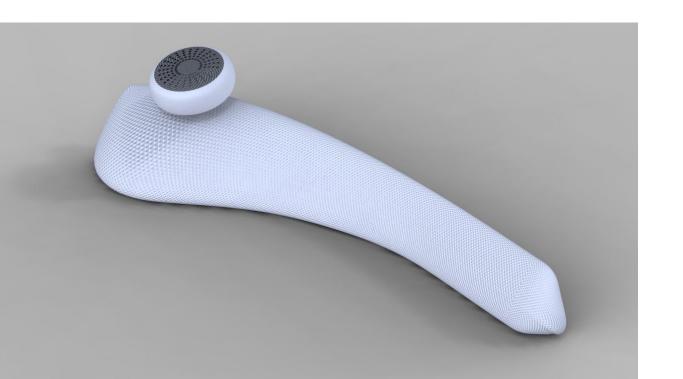


Scenario:

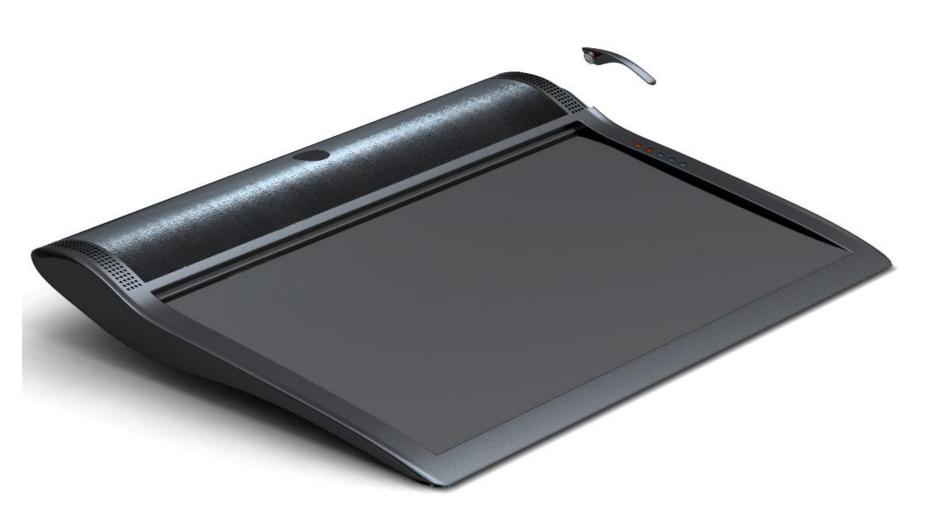




Scenario:







Acknowledgement

- Prof. Ravi Poovaiah and Prof. Anirudha Joshi
- All the user whom I interviewed during the course of project.
- Rasika Madav, Hemruchi Shah, Ketki Saxena, Ketaki Haldipurkar, Yohan Engineer

and all My Classmates...

References

Jodo

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Visual Communication

Sharable calendar

Ram Brijesh, Anupama Kamath
Visual Communication

Digital lifestyle products- personal Accessories

Abhijeet Rokade Visual Communication

Mobile communication device for women executives

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- http://www.litefast-display.com/e_litefast_motion.htm

Thank You!

Futuristic Computing Device For Women

Degree Project Stage 2

Guide: Prof. Ravi Poovaiah

Sachin Ghodke IXD | IDC.

Scenario: