
a project is used to project the feedback on the touch surface in "real time" enabling better interaction


Favorites

Tangible Interface Design Visual Design

Be
http://www.be-
hance.net/mrity hance.net/mrityunjay


Web camera captures the infrared rays and sends the data to computer to process touch coordinates.
ared led top suracded on the camera below can capture the iR light

A mirror is used at 45 angle
to compensate the projec tion distance from the
bottom to top

## MULTI-TOUCH TABLE DESIGN CHILDREN WITH SPECIAL NEEDS

Users:
Mentally Challenged children. (Autistic spectrum disorder, ADHD etc.)

## Age group:

5-15 years
PITCH - "every individual with or without disability has an equal right to live as participating members of their community. This treatment ultimately aims to reach this goa and allow an individual to achieve his or her full potential." The design objective of this project is to:
a) Create a platform to help children to refine their motor skills, and improve their mental health through intensive interaction and sensory (visual, sound and touch) integration.
b) Feel of independence amongst patients and their parents Patient can use this device without someone continuously monitoring them as we see in the traditional practices.
c) To continuously map the growth of the patients
d) To make these patients independent and to compete with the outside world by training them i.e education, social skills etc.
e) A platform (Multi-touch table) for which new ecosystems can be created. i.e. new app designs can be created whenever required as per the feedback from the users. New avatars of the concepts can be created


FavoritesProduct Design

Be
http://www.behance.net/-gallery/Photo-thera ${ }_{5}^{\text {py-Unit-Re-Design } / 791156}$


## Note:

1. All dimensions are in mm
. The inside bottom and sides of the base is provided with an array of Blue-LEDs of wave length 920 nm .
2. The inside surface of the top shield and inside bottom of the base is reflective coated.
3. H: varies from 550 mm to 400 mm .
4. $\mathrm{\Phi}$ : varies as height of the shield $(\mathrm{H})$ changes

| ITEM | PHOTOTHERAPY UNIT |
| :--- | :--- |
| Course | DES603 |
| Submitted by | -Mrityunjay Kumar Chauhan -12119012 <br> -Aboobacker Sidique -12119001 |
| Master of Design , Indian Institute of Technology-Kanpur |  |

## PHOTO-THERAPY UNIT DESIGN

 FOR NEONATESIn this project we had to develop a actual working prototype of a photo-therapy unit for the neonates suffering from jaundice. We did a user research (Doctors, Neonate mother, parents) and we found that the product needs to be easily portable as the existing units are very bulky and costly.
The main motto to design this photo-therapy unit is to make it available to the rural hospitals at low cost so that the rural people can benefit from this solution

THIS PRODUCT IS IN THE PROCESS OF PATENT

Favorites
$=$ Product Design

3 (3ttp://www.behance.net/-gallery/Photo-thera-py-Unit-Re-Design/791156
5

(1) (2) 2012-13


FINAL PRODUCT (WORKING PROTOTYPE)

MIT MEDIA LAB

Favorites

Tangible User Interface


A new information window that will connect a neighbourhood the digital age.

Applications include
Entertainment
Wayfinding
Public Awareness,
Safety
Govt. Interface
Tech for BoP etc.
workshop portFolio

## STREET SMART <br> MIT MEDIA LAB WORKSHOP

This workshop was conducted by MIT Media Lab, Tangible user Interface group in Bangalore. People (professionals, students, Entrepreneurs) from various genres participated in this 7 days workshop. It gave an insight of how technology merged with art can change the the world and simplify user tasks.

A mixed team (artist, technologist, Entrepreneurs, professionals) of five person were divided in a team and each team had to work on a problem statement

Our "Street Smart" concept i.e. "a new information window that will connect a neighborhood to the digital age" was chosen to simplify user task especially where a poor person can connect to the outer world via street lamps. Each street lamp will project displays of videos, pictures, internet. The main idea was to spread social awareness amongst low literacy users (aids, polio, etc.). In this way a user could learn and implement to bring a change to our Nation.

We developed a low fidelity prototype and our work was displayed on the last day.

Overall the working experience with MIT Media Lab was very innovative (thinking out of the box).


ㄹ




ATM single screen shot which has been logically simplified into this simple screen.


नमस्कार
मनोज जी
आपके खाते में ₹ 10, 000
हैं
प्रिंट करें

अन्य


Favorites

Visual Design
User Research


Some user testing of the prototype


## ATM RE-DESIGN

FOR SEMI-LITERATE USERS
This is a conceptual version of ATM redesign for semi-literate users in India. We did an extensive research of users in Kanpur zone and with UX methodology tried to develop a low-fidelity prototype of the design. The design proposed here increase human efficiency by reducing the number of steps in navigating from one screen to another.


Favorites

ב
Visual Design

Bē
http://www.behance.net/ gallery/project/7987139


## APP DEVELOPMENT FOR IRCTC

This is a conceptual version of app development for mobile devices. As a class assignment we for mobile devices. As a class assignment we
needed to make an interface for any electronic device. I tried to design a simple solution for this huge service.
A full methodology in user experience design was defined and then problem statement came as "The app should be as easy as getting paper tickets at the railway counters". An initial user survey was conducted, how users interact with the existing IRCTC website and what benefits do they look for while booking the tickets online.
After the user research, persona and scenarios were created and then initial wire-frames were made and tested with some users. After iterating few design problems this low fidelity visual design was created.


BASIC WIRE-FRAMES AND CLOSEUP LOOK OF THE APP

## APP DEVELOPMENT FOR SAMSUNG INDIA

This is a conceptual version of app development for samsung India. This was a competition thrown by samsung India. This was a competition thrown by and every group has to come up with innovative ideas for samsung android devices. Though this idea was not shortlisted for the further round, we thought to develop this app for Android market (Google store). A team of developers are still working the project
The concept is to "add emotional touch and values to your conversation". An awesome experience is created via different mediums i.e. sound, visuals for better interaction and entertainment.

2012-13


Screenshots of concept
$\odot$
(3) 2012-13

PACKAGING
nEcICN DESIGN

## Favourites

Graphic Design

Bè
http://www.behance.net/-galler/Packag-ing-for-34th-Nation-
al-Games-2011/599822


## PACKAGING FOR 34TH

NATIONAL GAMES, 2011 INDIA

Objective: To create a packaging box which can hold the weight of the Mascot and which should be easy to carry anywhere as the players and officials all over from India were to be given the mascot. The box should also depict the feel of Jharkhand.

Output: Factors taken to develop the packaging:
a) Box was designed with self-handle to be portable.
b) As mascot was a Dhokra (Brass craft) product, the Flute of CFB and the gsm of paper were taken care of.
c) The graphics and color used was taken to depict the feel of Jharkhand.
d) Materials and technique used were easy for production according to the short timeline.


KAกアUロ
PLASTIPACK LTロ
SロLUTION TO INOUSTRIAL BULK PACKAGING

## LOGO DESIGN FOR KANPUR PLASTIPACK LTD

a）In this logo benzene ring（hexagonal shape）has been shown with the help of negative and positive space between letter $K$ and $P$ ．
b）A box shape is formed with the help of letter $K$ and $P$ and the positive and negative space between the letters．
c）Round circle inside the box depicts GLOBE as Kanpur Plastipack here acts as a Global player and it also completes the benzene structure．
d）Dark grey depicts the feel of formal，conservative，and sophisticated．
e）Logo is simple yet sophisticated，can be easily memorized，carries the brand image，can be scalable to any size，can be executed to any medium，can be printed in single color．

## COMMUNICATION





KAחPUR



KAחקUR ㄱLASTIPACK LTD


KAחPUR PLASTIPACK LTD


rutas
IIR

## LOGO DESIGN FOR

 RUTAGa) Rural Technology Action Group (RUTAG) was initiated and sponsored by the principal scientific advisor to The Government of India in 2004 under Dr. Chidambaram, with the objective of identifying technological gaps in various activities in rural villages in India.
b) The idea was to design a logo which should depict the feel of rural India amalgamated with Technology of IITK.FavouritesVisual Design

Bē http:///www.behance.net/-
gallery/Lo-go-design/5799119


## LOGO DESIGN FOR <br> JHARCRAFT AT NID, AHMEDABAD

Objective: To learn the concept and values of an identity and how to execute the concept and visual to a real form.

## Output:

a) We learnt the basic concepts of Elements of Design, Typography, Information Technology, etc.
b) A team of four members were made and task was assigned to develop a new identity or to recreate a present existing identity.
c) We chose Jharcraft as our present existing example and worked as a team to develop a new identity for Jharcraft.

SHORT FILM FOR: WORLD CRAFT COUNCIL


This movie was shortlisted among the top 14 best films across the Globe. Unfortunately we could not win in this competitionFavorites

ב Communication design

Be

http://www.behance.net/gallery/MOTION-PICTURES/7904577

(1)

(2)

2012-13


This movie was directed by my friend Mang and the music has been composed by me and Mang.

## SHORT FILM FOR: APNA SCHOOL NGO



This movie was made as a help to this NGO working towards providing free education to the BOP children.


Favourites


## PHOTOGRAPHY AT IITK <br> PHOTOGRAPHY AT IITK


$\equiv$ Visual Design
Favourites
$\bar{\equiv}$ Visual Design

## PHOTOGRAPHY AT IITK

In this project we did a collective photoshoct of diflerent events at Antaragni Fest. 2012

Be ontron
(1)

2012

Favorites

工 Visual Design Product Design

## Report

## Objectives

In this module we were supposed to create a physical game for the children of age group - 12 to15. The game should have multiple options to play.

## Outcomes:

We as a team of 3 members came up with the following deliverables:
a) Game named "Matha Pachhi" meaning brain teaser in english. b) The game had customized templates to be inserted whenever needed to change the game.
c) Each template was a new concept of design.
d) We came up with the other game templates named "Adal Badal", "Rann Poat" and "Takari" as other variation in the game.

## ADAL BADAL:

The Main objective of the game is to solve the puzzle with mutual co-ordination. Players should replace their color pieces position to the pposite side of the board within the rule presets. There are 9 levels in this puzzle game.

## RANN POAT:

The main objective of the game is one player should try to eliminate opponent player. The player who eliminates all the opponent's color pieces first is the winner.

## TAKARI:

The main objective of this game is each player should try to reach the other end. The player who reaches first is the winner.



Design Proces
We all started with the initial brainstrom on the game which we wanted to
develop. We fixed the rules of the game very simple, one is supposed to cross over the pieces to home which is exactly opposite to the starting point. Player is
supposed to jump over the single supposed to jump over the single
pieces and move ahead. There is no other way to step back at any Circumstance.
While during the process Matha pacchi" as it was really a hectic time when thinking on the concept. We took around 3 days to come up with the
final concept. In the next process we final concept. In the next processs we
made design layout and graphics of the game on softwares

(1)
(2) 2012


Free Hand
Sketching
Favorites
(1)
(2)

2013
Favorites
PENCIL SKETCHES

(1)
(3) 2013

For more works please visit
http://www.behance.net/mrityunjay

## THANK YOU

```
MRITUNJAY KUMAR
MASTER OF DESIGN
INDIAN INSTITUTE OF TECHNOLOGY KANPUR
email: mritunjk@iitk.ac.in, mjdesignfactory@gmail.com
ph: 9651953388
```

