DICE Ecosystem

Design Innovation Creativity Entrepreneurship



OUR CORE VALUES

	INTEGRITY	Advocate fairness and transparency in all practices and interactions, with highest standards of professionalism and ethics.
M	MOTIVATION	Extend active encouragement and create an energizing work environment to support consistent performance and growth in the organization.
Р	PASSION	Foster creativity and take pride in organizational endeavors with a compelling desire for achievement of shared goals.
Α	AGILITY	Learn quickly and effectively from experiences, embrace change and adapt to the evolving needs of the organization.
С	COMMUNITY	Practice empathy and generate value through sustainable development and empowerment of individuals & communities for the betterment of society.
Т	TEAMWORK	Promote collaboration with all stakeholders for achievement of common goals through shared responsibility and support.

PATENT IMPACT

DICE Ecosystem

Our Environment

Innovation cannot happen in isolation without the support of the LPID surrounding.

Innovation, is like leaves.

Every year new technologies make way for new perspectives that fosters new innovations.



Developing new technologies for a greater social impact and social inclusion.







For Technology and Human Health.

New Methods, New Metrics, New Models helps to build new connections between human needs and technology.

For Better Eco Life.



Innovate to reduce carbon footprint and for sustainable living.



A Tele-Medical Communication Device Used Primarily To Conduct Video Conference Consulting With Doctors In Major Hospitals.



Sehat is a telemedical device that is specifically designed to bridge the gap between the villages to the medical institutions in cities. This product connects any village to any doctor through the Asha Worker.

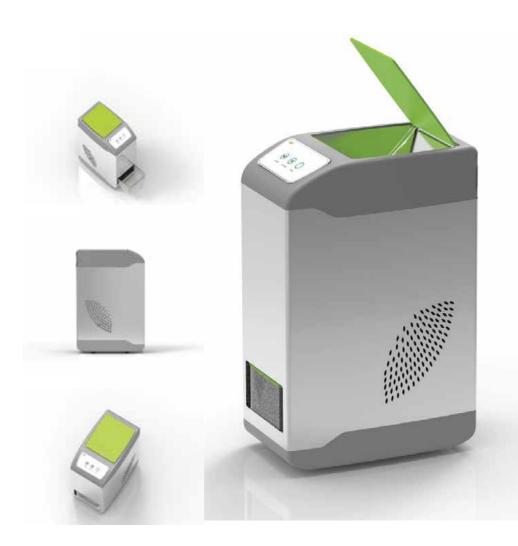
It helps in validaton of primary diagnosis and communicating expert advice directly given by the doctor through video conferencing. Data about the vitals and symptoms will be available through the software both to the Asha worker and the Doctor. The data is synced with the aadhar card database, hence the information and history can be acessed by doctors in the future.

Patent Application No. 300848 Student Name: Nilay Kachalia





A semi-automatic device that is designed to help turn food waste to compost conveniently and effectively especially for nuclear families living in apartments with limited space.



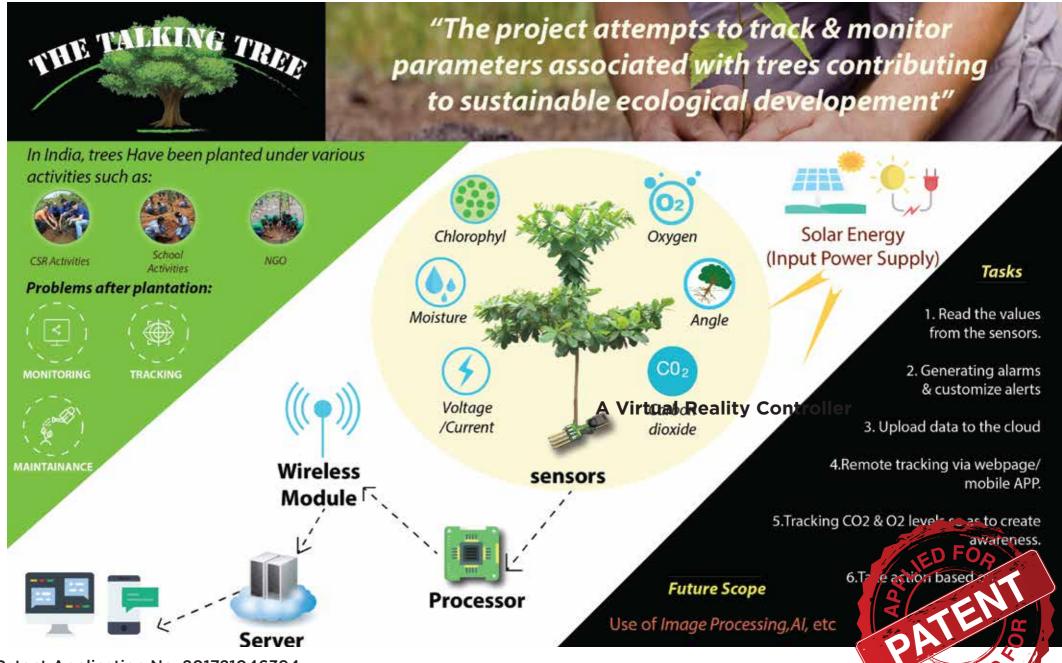
Nearly 80% of the kitchen waste that we throw away is biodegradable. It is an unappreciated resource that can be utilised for another purpose.

Khaad is a semi-automatic device for urban apartments to help compost food waste. It is designed for modularity as the device merges seamlessly with the kitchen platform.

To speed up the composting process the waste is automatically shredded into smaller pieces and mixed twice a day. It keeps a check on moisture content and air flow to prevent odour. The compost is ready within just 21 days.

Student Name: Zainab & Arohi



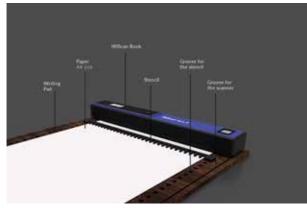


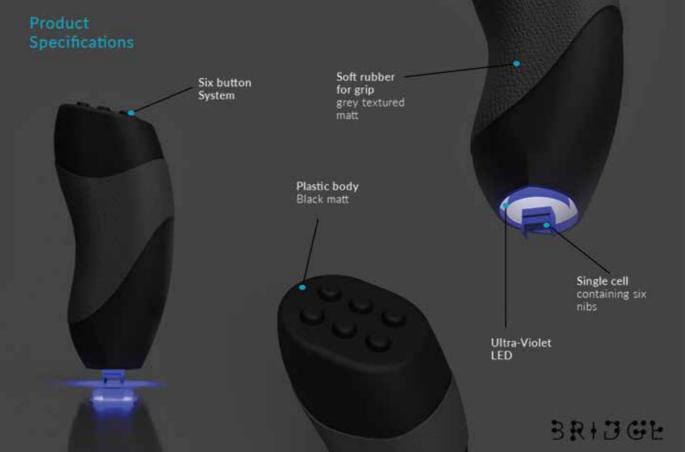
Patent Application No. 201721046394 Student Name: Radhika Girish Kolhatkar

BRIDGE

An Opti-writing device









INNOVATION

The innovation is a compact pen like device with which they can write in braille and the scanner with inbuilt software will decode the braille into any desired language, making it a printable document.

Patent Application No. 201721046396

Student Name: Shrishti Sirsalewala | Riddhi Mehta | Pallavi Patnaik | Ramya Satish

NIDRA



The contemporary anti-stress, sleep inducing eye mask

A sleep aiding device that detects stress, massages your pressure points and plays appropriate relaxing music to calm your mind, body and soul.

PRODUCT FEATURES



Inspired from Shirodhara, pressure at forehead to relieve stress





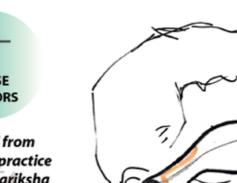
Plays night Ragas inspired from Raga



Aloe vera fillings (Temperature controlled)



Inspired from Ayurvedic practice of Naadi pariksha





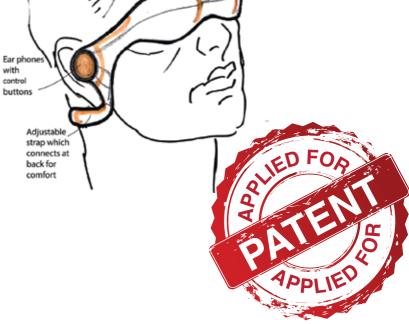












Patent Application No. 201721044184

Student Name: Anjani Soni | Radhika Girish Kolhatkar Course: School of Design | Product Design | Batch of 2019

Connecting dots

Connecting dots is an ongoing project to build smart connected 3D Models for the visually impaired to make their experience of viewing a place more delightful & memorable

This project is driven by a series of iterative prototyping & user testing

Key features

Navigation

Point of alighting
Imp points like check post, toilets,
information desk
Distance & direction
Starting & ending points

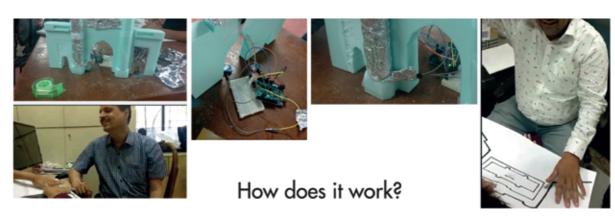
Description of the place

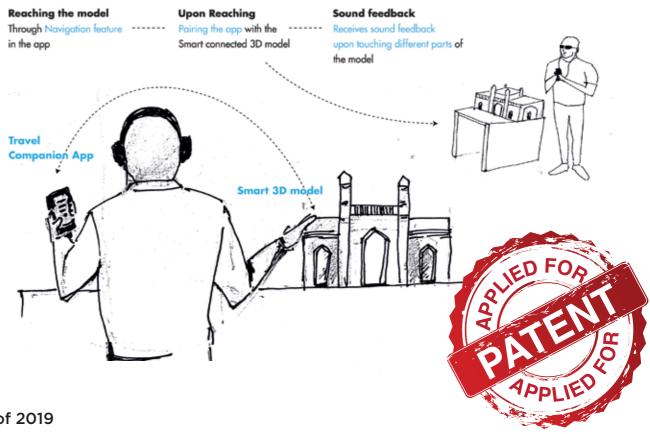
Overview of the place (history & other details) Form & spatial dimensions.

Patent Application No. 201721046395 Student Name: Disha Shah | Shikha Verma

Course: School of Design | Product Design | Batch of 2019

An ongoing 3D Model for the visually impaired to make viewing experience memorable.







A child friendly seating design made for waiting areas in public and private spaces

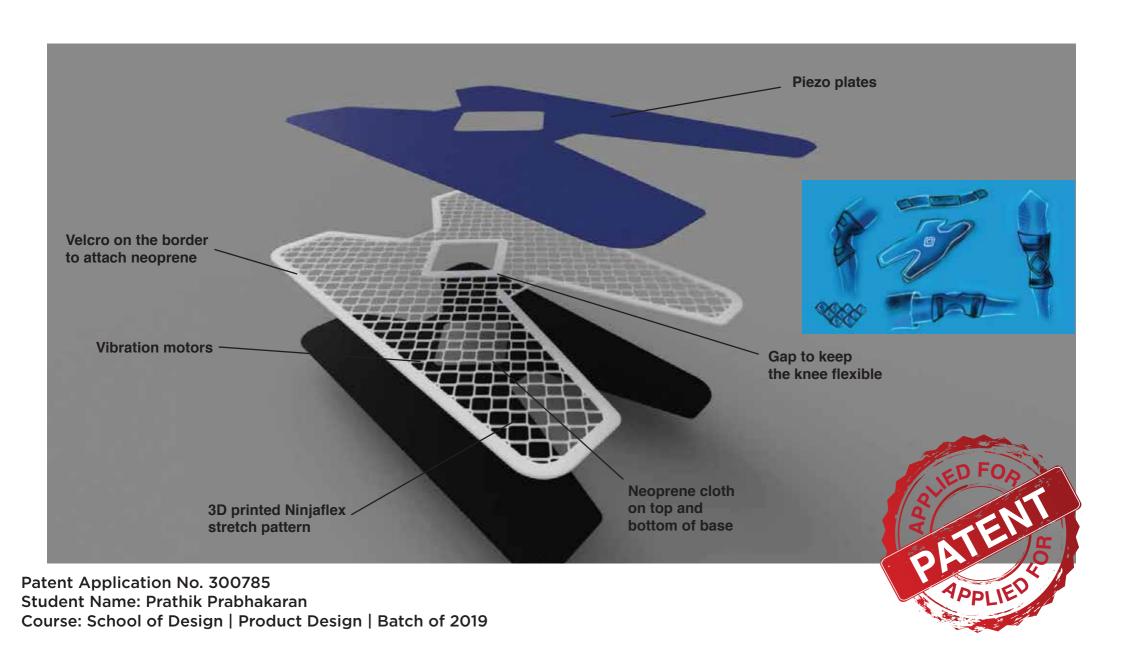




Student Name: Manuhita Gupta

Swivel

A device that aids and quickens the process of rehabilitation from different kinds of injuries sustained in the lower body.



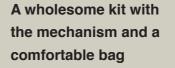
Colostomy Bag







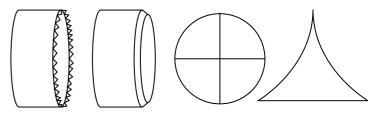




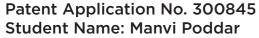


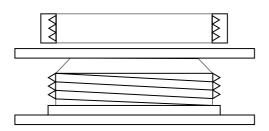
A leak proof mechanism that fits onto any plastic bag



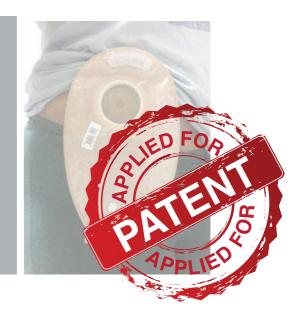


Low cost excretion bag for colon surgery patients. Cost reduced to one - fourth of market price. design to be leak proof and odour free, reducing stigma, increased patient comfort









City Bull is an Urban e_bike

A sustainable urban e-bike for the youth







City bull is an e_bike concept focusing towards the Indian market and catering to the current youth generation keeping their daily requirements and needs in mind. City bull specifically solves the daily hassle of storage, time and energy encouraging sustainability and satisfied user experience.

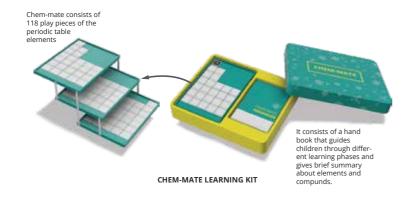
Student Name: Tausif Manjothi

An interactive learning kit to make molecular chemistry more fun and easier to understand through a variety of handbooks and play pieces.

CHEM-MATE LEARNING KIT



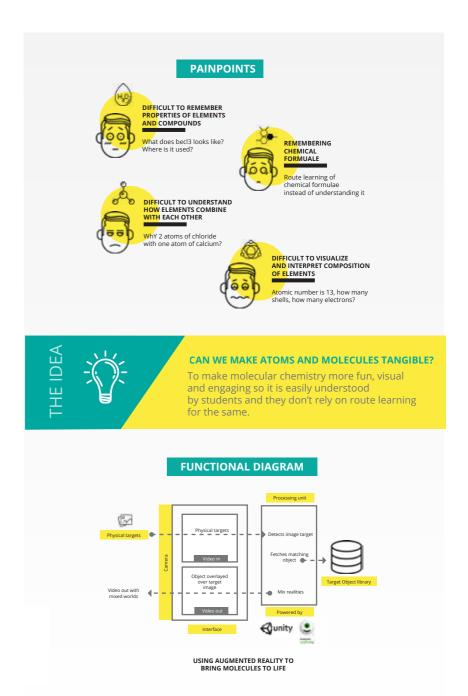
Chem mate is an interactive learning kit that attempts to make molecular Chemistry more fun,visual and engaging. It consists of a handbook that guides the children through concepts of molecular Chemistry, play pieces of chemical elements and a supporting AR app. It helps children understand the configuration and properties of elements in the periodic table as well as the formation of compunds based on their valencies.





Student Name: Shikha Verma

Course: School of Design | Design & Innovation | Batch of 2018



Bozo

To redesign an asthma inhaler for kids which is easier to use, suits their ergonomics and tackles the social acceptability



Shell

Kid's Asthma Inhaler

Counter

Mouthpiece Glow in the dark

Patent Application No. 303914 Student Name: Sanya Shah



Ferris

is an innovative bike parking solution aimed to eliminate the problem of limited parking space using vertical structures.

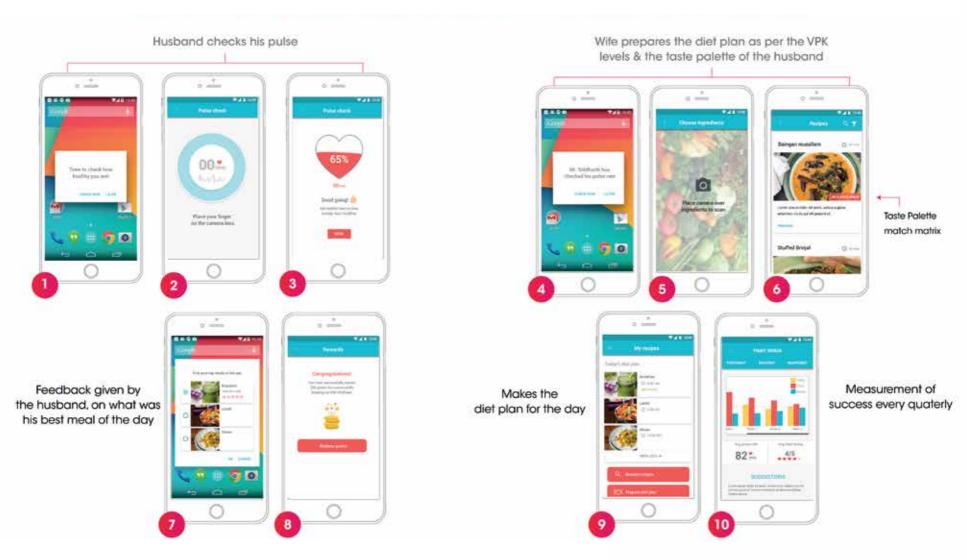
Ferris is an innovative bike parking solution that has been engineered to the last detail. the structure allows eight bikes to be parked in the space occupied by three bikes. the structure is conceived to be installed in congested cities such as Mumbai, under flyovers and in between buildings.



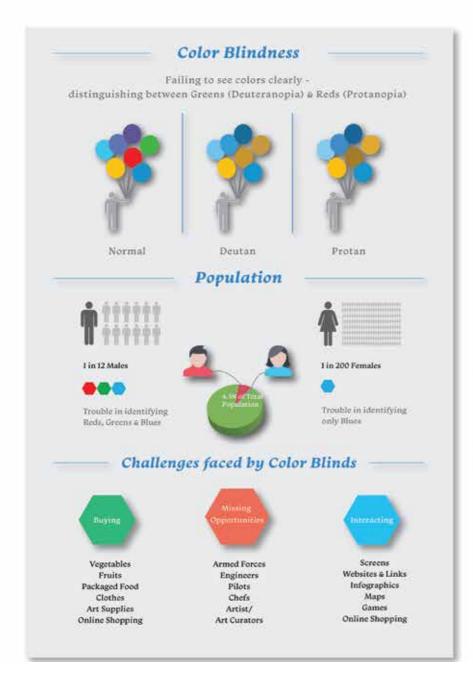
Student Name: Roshan Nair



A contemporary application to provide healthy food and medical advice to middle aged males for the betterment of their heart.

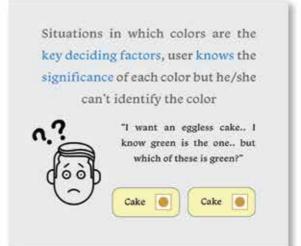


Student Name: Disha Shah | Shikha Verma | Saranya Banarjee Course: School of Design | Design & Innovation | Batch of 2018



SPECTRA

A mobile application targeted to overcome the challenges faced by people who are colour blind.



Red





Aim the pointer on

store or App store



Student Name: Anuradha Patil

Course: School of Design | Design & Innovation | Batch of 2018



Aarogya is a tele-medical station which connects doctors and patients across states for checkups using a video display, microphone and vitals measurement tools with the aid of a mediator (nurse) to handle,maintain and secure the device. Patients receive health advice and prescriptions from doctors using this device. Health history is stored on the cloud using aadhar card identification, and information can be accessed online through an information portal.



Blood Pressure Monitor



Infrared
Theremometer



Digital Stethoscope





Student Name: Mihika Mehta

The Knowledge Transfer Partnership (KTP) is the formation of a 3-way partnership between a 'Business' Partner, a 'Knowledge' Partner and a 'Graduate' Partner which through research helps to improve the competitiveness of a business by drawing on the expertise of universities, colleges and other knowledge providers.



To improve access to potable water for urban slum dwellers



To improve access to sanitation services for low income communities



To gain consumers insights and build new products for urban living



To improve compliance of medication in chronic diseases

To conduct ethnographic research on impact of cultural beliefs on cardiac health



To evaluate and understand parenting style in urban India



To enhance local ethnic communities to improve menstrual health & reduce electronic waste

To enable self-help groups of Nasik become self reliant



To increase the market penetration for automated products in India

KEY BENEFITS FOR STAKEHOLDERS

The KTP benefits are for both stakeholders - commercial businesses and academia

BUSINESS PARTNERS

- Businesses acquire new knowledge and expertise relating to ground level impact of their projects
- Companies can explore a prospective segment with minimal risk, acquire deep insights and benefit from research & the innovative ideas proposed
- Companies get a bouquet of design, innovation and business-based opportunities In-depth ethnographic research into the human behaviour and sanitation & disease ecosystem
- Mapping of burden on services such as health and civic
- Systems model mapping all stakeholder relationships, causal loops and possible intervention points
- Project report on possible innovation opportunities in the chosen landscape such as diabetes and sanitation

DICE KNOWLEDGE FOUNDATION

- Universities, colleges or research organisations bring their experience to enhance the business relevance of their research and teaching
- Research collaboration support for the Center For Global Health Innovation & Research and Center for Water, Sanitation & Hygiene at DICE Ecosystem
- Institutional MOU for further projects
- Exposure of students to complex socio-cultural ecosystems
- Enhanced relationship with experts from Philips Healthcare and patent possibility for the insulin cooler for product innovation

STUDENT

- Students gain an in-depth understanding from the field and deal with actual real-life case studies
- Opportunity for students to be mentored by experts from TATA DISQ, Sanitation Impact Solutions and Philips Healthcare
- Enhanced learning with practical industry driven pedagogy and interaction with people in the field
- Internships for four product design students in 2018
- Students gain business based experience as well as personal and professional development opportunities







About the Project

Eureka Forbes was looking to improve access to potable water for urban slum dwellers. To this end the company installed a water generation plant at Rafiq Nagar, an urban slum in Maharashtra. Working with the Indian School of Management and Entrepreneurship, this Knowledge Transfer Partnership (KTP) aimed to study the impact of the water plant in the following areas viz. access to good quality water and its impact on health, income and saving of time.

- » An accurate and robust data collection regime
- » Helped in their advocacy programs by providing unique ideas for spreading awareness about clean drinking water
- » The findings of the report highlighted the implementation gaps in the process of setting up, maintaining and successfully running a water ATM







About the Project

Understanding human behaviour of compliance, cleaning, maintenance and costs of running community toilets, the outcome is to design a economically sustainable toilet management solution that encompasses refurbishment of toilets, process flow, quality control parameters and economic model for maintenance.

- » Helped in advocacy of health and sanitation
- » Developed research and project management skills
- » Generated curiosity in the area of social impact and visibility for the institution







About the Project

Whirlpool was looking to enhance the sensorial quality of their products and meet their current customer needs. Whirlpool proposed a workshop on improving and enhancing the aesthetics of their products .ISDI and ISDI WPP in collaboration with SJS were invited to present concepts / ideas that would assist Whirlpool to offer products with bling to its consumers. The aim of this project was to conduct primary research to substantiate concepts proposed by SJS and find relevant consumer insights to find trends that could to extrapolated into design concepts.

- » A comprehensive study of the consumer profile that is relevant and relatable to their target market.
- » The Company gained valuable insight about consumer behaviour, motivation to purchase and relevant market trends.
- » Proposed a further course of action for Whirlpool to implement this design strategy forward into a communication and technology led strategy.







About the Project

The design brief was to apply the traditional Indian Wisdom on health in a modern context. Cardiac health was chosen as the main focus area for the purpose of the project. The ethnographic research was conducted through extensive qualitative interviews over a period of three months and the insights gathered were validated by construction of design artefacts. The inputs were used to design a digital product, "Hridhaan" which is a mobile application that help users to keep track of their cardiac health along with providing them with a guidance on their dietary habits for cardiac well-being.

- » Gain improved understanding of commercial realities
- » Possibility of publishing high quality journal and conference papers
- » Opportunity for early career researchers to gain supervision experience







About the Project

The project brief was to conduct a research on "Decadal change in parenting styles and development of Modern Parenting. To decode the brief the associates classified the existing parenting styles e.g. Helicopter parenting, authoritative parenting etc. using secondary research. Then through snow ball sampling conducted about 40 interviews, with questions aimed at drawing as many insights as possible. These insights were then mapped into parent profiles by way of individual movies.

This research was very well received by Grey. They said that these insights would be further used for their clients

- » Insights found enhanced effectiveness of Grey group Marketing Campaigns
- » Highly skilled and motivated graduate (associate) to spearhead the project and the opportunity to employ the trained graduate at the end of the project







About the Project

The project brief was to aid the Self Help Groups to increase their market visibility through their stories & the products they make. An e-commerce platform was launched, where the products made by these groups would be put for sale. A performance tracking system was designed to keep a check on the status of the Self Help groups by the organisations. Frequent visits were made to the houses of these local groups, to undertake a contextual research.

- » Design Interventions helped to enhance the product offering and product presentation on the commercial platform.
- » A better understanding of design in general and how it could help to create a value for products







About the Project

This project is majorly concerned with Market Penetration for Daifuku India as a business growth strategy. The company wants to expand the customer base for its products and services within the Indian market space. In this context, the first step is to assess the requirement in the Indian industry and then to find out what is the potential to penetrate the market further. The project sought to develope prospective client database for developing a focussed marketing strategy to help the company enhance its market penetration.

- » The partnership will provide a high-quality network of contacts with industry and new research opportunities will arise to the benefit of staff and students
- » Knowledge gained will be included in course work, with several case studies being generated adding to the library of industry-linked material.

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Design Innovation Creativity Entrepreneurship



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