DESIGN PRESENATION



PRESENTED BY PALLAVI BANSAL - 2229142



POST LUX



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RESEARCH QUESTION What does the convenience store of Future looks like?





An amalgamation of Tech and Spatial design.

- To include Ever-so indulging unconventional selling and marketing techniques.
- To transform the mundane grocery shopping experience into an exciting one.

MY EXPERIENCE

It comes from my personal shopping experience and the fact that I have given a trial shift in a convenience store named Premiere Express in Canterbury. The experience that almost made me cry. Arranging the shelves, and dealing with noninterested buyers made me come up with this idea to create a store that is not just a store but an experience to live just like any other fun activity like playing games, chatting with your friends or having fun while getting the work done.

Even stopping at the corner shop should be a Treat!

 To make daily activities fun and separate them from the basics.

• To break the idea of having a regular size convenience store.



- Confusing
- Poor organization
- Limited space
- Inadequate product display
- Inadequate lighting and ambiance
- Insufficient customer service areas
- Lack of seating or waiting areas

DESIGN PROBLEM



Hollander beater

He looked at several beaters available since he needed to produce high-quality pulp from long fibers like flax and hemp. He searched for the ideal beater, but none existed, so in 1991 he created his own HOLLANDER BEATER. a device appropriate for both beating soft and short fibers like cotton linters as well as beating long fibers like flax, hemp, or sisal. The machine's bedplate is bronze, and it is constructed of stainless steel.

THE WESTIN HOTEL, LONDON Artist - Peter Gentenaar PAPER INSTALLATION The hotel is positioned between The City of London and the River Thames.

Artist Peter Gentenaar, who lives and works in the Netherlands, uses paper to make enormous, wavy sculptures. These massive yet delicate sculptures developed from Peter's earlier work as a printer. He frequently discovered that commercial paper was too thin for his engravings when he was working on them. He then started experimenting with making his own paper and discovered that by employing a particular technique for beating the pulp, making sheets with thin bamboo ribs, and letting the pulp dry, the pulp's shrinking pulls the bamboo ribs in such a way as to create these rolling, distinctive sculptures. Peter even created his own tools to get the desired effects when developing his artistic approach.

Pat's Technique

Peter has created a really unique method for painting using a variety of paper fibers in an aqua solution over the years. A hollander beater may produce a wide range of textures from even one type of fiber by adjusting the milling time.

On the vacuum table's surface, Peter paints from the front of the canvas. He arranges the colorful pulps in thin, frequently translucent layers next to and on top of one another, occasionally sculpting them with a knife. He steadily builds up the pulp layers to the back as the water drains, culminating with an overall layer of hemp pulp for strength and an additional layer of cotton pulp overall to serve as a cushion for drying on a board.



CASE STUDY











Mycelium, which replaced the water in the structure as it developed, produced a material that was both strong and incredibly light. At this time, Klarenbeek dried out the building to stop future growth after mushrooms started to sprout on the surface.

As the straw dries, the mushroom acts as a sort of glue, according to Klarenbeek. You have this robust, sturdy material that is strong and lightweight.

To keep the fungus from spreading, a thin layer of printed bioplastic was applied to the chair's frame. Since the fungus employed in the research, the yellow oyster mushroom, prefers to grow on straw, straw was used as a substrate.

The mushrooms are merely an ornamental feature, claimed Klarenbeek. We took the picture with the mushrooms poking out for that reason. Our main goal was to combine technology and nature to produce a brand-new material that could be used to construct any kind of product.



The Mycelium Chair, which was unveiled this weekend at Dutch Design Week in Eindhoven, was created by printing a solution of water, powdered straw, and mycelium, the underground fungus' threadlike portion.

The chair is the outcome of a partnership between scientists at the University of Wageningen and Klarenbeek to create a fresh method of printing with living things. The major goal, according to Klarenbeek, was to combine nature and technology to produce a new material that could be utilized to construct any product.

Steps in the making

THE MYCELIUM CHAIR

CASE STUDY

A lightweight Strong and solid material – Mycelium

Artist – Eric Klarenbeek

Research samples

10.10



There are large screens which give aerial views of the different wine regions around the world.

Fly over twenty wine areas of the world in 17 different countries in this movie, which is projected onto three enormous screens from three distinct views. Immerse yourself in the breathtaking beauty and remarkable diversity of grape landscapes.



Anouk Legendre and Nicholas Desmarzières, architects from Paris' XTU, created this massive, curved museum, which Bordeaux unveiled in June 2016. To engage visitors in learning about wine history, culture, and wine making from throughout the world, the complex has used creative, multi-sensory methods. The displays in the 20 themed zones make use of the most modern visual effects and technology. One is allowed to wander the museum at their own speed while in this expansive permanent exhibit space.

Projected from the heights of oversized bottles crafted in wood, circular screens react to the movements of hovering hands while plundging visitors into a blend of animations, sounds, scents, that depict the six main families of wines : dry white, red wine, rosé, sparkling, fortified and sweet.

Those bottles were the most technically challenging. Thanks to a camera with infrared capabilities placed above the screen, the visitors' gestures are analyzed in real time. They generate realistic movements of the liquid surface, manipulating text menus made of lively particules. The content is beautifully rendered through movies that seem to blend with the liquid surface and evoke in poetic ways the history and imagination of the wines.

LA CITÉ DU VIN, BORDEAUX, PARIS

Wine portraits





Hempcrete

Using mycelium to create design elements is an innovative and sustainable approach that has gained popularity in recent years. Mycelium-based materials, often referred to as "mycotecture," offer unique properties that can be harnessed for various design purposes.

Hempcrete is a sustainable building material made from the inner fibers of the hemp plant mixed with lime and water. It is known for its excellent insulation properties, durability, and environmentally friendly characteristics.

Low carbon concrete, often referred to as "low-carbon cement" or "sustainable concrete," is a type of concrete that is produced with the goal of minimizing carbon dioxide (CO2) emissions associated with its production.

a specific method of beating the pulp, creating sheets with thin ribs of bamboo, and then allowing the pulp to dry, the shrinking of the pulp pulls the bamboo ribs in such a way as to create these rolling, unique sculptures.

MATERIAL RESEARCH

It's a type of engineered wood product made from thin sheets or veneers of bamboo that are laminated together using adhesive under high pressure. It combines the natural beauty and sustainability of bamboo with the strength of traditional plywood.



Low-Carbon concrete block

Bamboo & flax/hemp Pulp (paper) Installation

Strand woven Bamboo

Plexiglass



Recycled Metal



Recycled metal interior construction involves using metal materials that have been previously used and then processed to make them suitable for new construction projects.

Plexiglass is a brand name for polymethyl methacrylate (PMMA), a form of transparent plastic sheeting. Acrylic is another common name for it. If you value transparency, ease of molding, and a low cost solution, plexiglass is the preferable option.

MATERIAL RESEARCH

Stained glass pieces cut into triangle forms and joined to form a greater design or artwork. Stained glass is a type of ornamental art that includes adding colors to glass to create colorful scenes.

Triangular Stained glass

Recycled polyester is created from post-consumer plastic bottles, diverting plastic waste from landfills and seas. Repurposing existing materials minimizes the demand for new raw materials.Recycled polyester retains the durability and performance attributes of regular polyester.

Recycled Polyester

- **Uncluttered Layout**
- **Creative lighting**
- **Eco friendly materials**
- **Store cum experience**
- Relaxing areas while you wait
- **Distinct installations**
- VR Booths (Know your product)
- **Review screens**

Pop colors on a Neutral backdrop

Cure for everything

A Convenience store which is futuristic in terms of technology, distinct in terms of design and has an aesthetic appeal complementing the streets of **Canterbury.**

PROJECT CONCEPT

MILAN – **Carlo Ratti x Coop Italia Supermarket of the Future**

During Expo Milan 2015, Coop Italia, Italy's largest grocer, teamed up with MIT Senseable City Lab lead Carlo Ratti to present a concept for connecting with digital natives in a physical retail environment.

Inspiration for the Futuristic elements in the Project

An indoor structure resembling a Cave.

Virtual digital

assistant

AR Labels (Augmented labels)

TECHNOLOGICAL FEATURES

Wine & Beverage recommendation

Smart Shelf management

Dynamic price labels

VR experiences

Voice activated shopping

Customer behavior and analysis

SITE IDENTIFICATION

SITE: WAGAMAMA

LONGMARKET STREET

Reasons 10 choose this site:

Gives an interesting backdrop between Historic charm and modern businesses.

7-9 LONGMARKET, CANTERBURY CT1 2JS

Restaurant's kitchen and storage can be used for Store storage and backend.

Inspired history of the Longmarket lane with

Rich location in terms of being at the center and largely going to attract customers.

MODERN

SITE VISIT

HISTORICAL ANALYSIS

The Cornmarket, with all around it, was struck by incendiary bombs about 1am on the morning of 1st June 1942

Immediately after the war temporary shops were built on the Longmarket site to re-house blitzed tradespeople.

The site was zoned in the Comprehensive Development Area Map as a public open space an area intended primarily for shops.

> LONGMARKET STREET-

REHOUSING TRADERS & MERCHANTS POST 1942 WAR

MEDIEVAL ORIGINS:

Longmarket Street served as the center of market activity, as the name suggests. Markets were regularly conducted, and traders and merchants gathered to offer a range of products for sale, including food, clothing, and other necessities.

The basic aesthetic principles underlying the Longmarket scheme have been (a) to create a new environment in the form of a pedestrian shopping precinct which would give added variety and interest in the Central Area, and (b) to provide visual link between the old and the new with the general layout and massing of the buildings conceived so as to frame the view of the Cathedral from St. George's Street and to give emphasis to the beauty of the Central and Norman towers of the Cathedral.

ARCHIVES FROM THE HISTORY

HISTORICAL ABSTRACT MAKING ME CHOOSE THIS SITE FOR THE PROJECT

On the corner of Butchery Lane (where the Midland Bank now stands) was the Canterbury cornmarket, a homely structure of wood, with a little yard in front. This was felt to be unworthy of the City, and a subscription list was opened in the 1820's for its re-building on the Longmarket site, which was largely completed by 1824. Mr. Frend's wine-business was moved to one side but embodied in the new structure. His wine-vaults are still in existence beneath the forecourt of the Longmarket, and the same business, under another name, is carried on a few yards away.

Canterbury before the war will remember the engaging 'LONGMARKET' at ground level, held in permanent semi-darkness. As in 1825, there were still stalls for the sale of meat, vegetables and fruit, but there were moreover exposed for sale ancient books, furniture and antiques, where remarkable bargains could be picked up.

> The City Architect and Planning Officer was instructed to prepare plans for the development of the site and in 1958 an outline scheme for a shopping precinct was approved in principle by the City Council.

FINALLY...

Site - Location

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Site Planning application form -2004

pa.canterbury.gov.uk. (n.d.). CA//04/01188 | Change of use from retail (Class A1 use) to restaurant (Class A3 use) with new shopfront, alterations to provide plant space and extract duct. | 7–11 Longmarket Canterbury. [online] Available at: https://pa.canterbury.gov.uk/online-applications/applicationDetails.do?activeTab=documents&keyVal=ZZZXHIEAID204 [Accessed 2 Oct. 2023].

planning applications

Shopfront Ammended Elevations

PANACEA GROTTO'S SHOPFRONT IN THE BACKDROP OF CANTERBURY'S HISTORIC LONGMARKET STREET

DESIGN PROCESS

A SECTION THROUGH THE LONGMARKET STREET

HISTORIC CHARM

MODERN BUSINESS

WORK PROCESS

Studying existing drawing by Architect & Changes as per requirements

7-11 LONGMARKET - PLANNING PROCESS

Tracing the Architect's drawing to Scale & proportion

Initial Proposed Layout plan-Panacea Grotto

7-11 LONGMARKET - FINAL PLAN

Changes in existing drawing - Wagamama

Proposed Layout plan-

WORKING DRAWING

Area to be retained and modified for Store's Storage and services

Panacea Grotto

AREAS CHANGED AS PER REQUIREMENTS

CEILING CONCEPT DEVELOPMENT

DISPOSABLE CULTURE

AN INITIATIVE TO USE BIODEGRADABLE PACKAGING

MESSAGE

"Transforming Trash into Treasures: Join Our Eco-Craft Revolution! Donate Your Waste, Unleash Creativity, and Build Sustainable Wonders Together."

Reducing Overall Consumption

Promoting recycling

Using alternative materials

Sustainable living

CRUMPLED PAPER

INSTALLATION **PROCESS /** TECHNICALS

HEMP/FLAX PAPER WITH BAMBOO RIBS **AND PIGMENT**

ELEVATION AA'

Wall cladded in Hempcrete

Paper Ceiling installation in Flax paper

Wine Tasting booth in Bamboo wood

VR Booth in Triangular stained glass structure

Door to storage

Elevation - Rendered

Suspended Light fixture

Door to storage

Review /Advertismenet screen

Display Aisle in Concrete block & recycled metal

Centralized Payment/ Enquiry counter in Plywood

Wall cladded in Hempcrete

Paper Ceiling installation in Flax paper

Backlit Quote made with plywood

> Wine Tasting booth in Bamboo wood

Sofa upholstered in recycled polyester

Elevation - Rendered

Suspended Light fixture

Door to storage

Shelves for product display in glass

Display Aisle in Concrete block base & recycled metal with Orange enamel

Centre table in plywood

Wall cladded in Hempcrete

VR Booth in Triangular stained glass structure

> Mycelium cast furniture - side table

6" raised platform for VR booths

Elevation - Rendered

Stranded woven Bamboo strips over Hempcrete wall cladding

Liquor / Wine display Shelf in Glass shutter

Wine Glass big size installation in Plexiglass

Wine Tasting booth in Bamboo wood

Wall cladded in Hempcrete

Display screen for product 'Scan n Know'

Elevation - Rendered

Elevation

Existing brick wall - polished

Full height shelves with Paternoster mechanism for products

Display Aisle in Concrete block base & recycled metal with Orange enamel

Existing brick wall polished

Suspended Light fixture

Exterior Windows

Display Aisle in Concrete block base & recycled metal with Orange enamel

Elevation - Rendered

Paper Ceiling installation in Flax paper

VR Booth in Triangular stained glass structure

Centralized Payment/ Enquiry counter in Plywood

Mycelium cast furniture - side table

6" raised platform for VR booths

CONCEPT DEVELOPMENT - VR BOOTH

STARTS WITH A SKETCH

VISUALIZATION

CONCEPT DEVELOPMENT -ORGANIC SHAPE

3D DESIGN FROM VARIOUS ANGLES

CONCEPT - CASH COUNTER

Orthographic Drawings

CONCEPT - WINE TASTING BOOTH

3D Visualization

Illuminated with **Red indirect** lighting

A window cutout for Automatic Wine tasting samples with a glass

Placement just next to Wine & Liquor Shelving section to differentiate this area from the rest

CONCEPT - MYCELIUM SIDE TABLE

Imitating two sprouts growing from the raised wooden floor from both sides of the sofa

Concept **3D Modelling**

A side table crafted from mycelium in a sprout-like structure doesn't only serve a practical purpose but also showcases the potential of sustainable and innovative design practices in furniture production alongside giving n environment friendly message.

Mold in Mycelium -A natural material

Concept - Replicating how a sprout grows from the Earth

Fig.06 Sprouting

The mycelium chair

Material inspiration

SIDE VIEW

<u>Orthographic Drawings</u>

CONCEPT - PATERNOSTER SHELVES

Paternoster lift concept to run the automatic shelf management.

Fig.08 Paternoster elevator Paternoster Elevator, or Continuous elevator, does not have door and never stops.

Fig.09 Paternoster elevator working

Working of Elevator

Belt running across the Marked shelves

Elevation A

Concept Application for Automatic stocking of Shelves

CONCEPT, DRAWING, DESIGN - DISPLAY AISLE

3D Design

3D Visualization

Design inspiration -A column with iron structure in a contrasting hue.

hollow pipes

Front view

Side views

EXTERIOR LOOK AND FEEL

3 D R E N D E R S

3 D R E N D E R S

REFERENCING

All figures are copyright the author unless noted as follows:

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Case Studies :

The Westin Hotel

The mycelium chair

La Cité du Vin, Bordeaux, Paris

