



ARCHITECTURE PORTFOLIO

Subtitle : An undergraduate architecture portfolio

This is a collection of my selected works throughout my journey through my architecture college. The belief behind every project was to constantly challenge the existing dogmas , to question the very existence the aspects of our cities and the fabric of social interaction that lies within our cities . To maybe , reinvent the wheel .

To move forward , we must evolve and so must our creations .

KULEEN

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**KULEEN
CHOUBEY**

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ABOUT ME

An architecture student with enthusiastic, self-motivated, reliable, responsible and hard working personality . I am a mature team worker and adaptable to all challenging situations. I am able to work well both in a team environment as well as using own initiative. Particularly efficacious with the softwares and technical knowledge about today's technology and utilizing them to their utmost potential.

EDUCATION

2018- Present University School of Architecture
and Planning , GGSIPU, Delhi

2015-2017 Srilal Convent School (Class XI & XII)
Dwarka ,Delhi

2007 - 2014 Aravali International School (Class X)
Faridabad

EXPERIENCES

3D Designer Studio Ecchkay
May- October '19 Head of 3D Visualization ,Rendering for
catalogue for Dalal Tiles and Studio

Intern Design Accord , Delhi
June-July '19 Worked on Construction drawings
and concept models

COMPETITIONS

NASA ANDC '18 NASA ZNDC '18
NASA GRIHA Trophy '19 (4th Place) NASA HUDCO '18
Interior Design Competition '20

SKILLS

Adobe Illustrator	● ● ● ● ○
Adobe Photoshop	● ● ● ○ ○
Adobe Premier	● ● ● ○ ○
Adobe AE	● ● ● ○ ○
Adobe Indesign 20	● ● ● ○ ○
ArcGIS 10.7	● ● ● ● ○
Autodesk AutoCAD 19	● ● ● ● ●
Autodesk Revit 18	● ● ● ● ○
Sketchup Pro	● ● ● ● ●
Lumion 11	● ● ● ● ●
Vray for Sketchup	● ● ● ● ○
Enscape	● ● ● ● ○
Twinmotion 19	● ● ● ● ○
Blender 2.93	● ● ● ○ ○
Marvelous Designer	● ● ○ ○ ○
Keyshot 10	● ● ● ● ●
Rhino 7	● ○ ○ ○ ○
Rhino Grasshopper	● ○ ○ ○ ○
Prezi Next	● ● ● ● ○
MS Office	● ● ● ● ○
Depth Map X	● ○ ○ ○ ○

Preface

This portfolio is an organized collection of goal-driven artifacts of my professional growth and achieved competence over the past four years. I am a architecture student studying at University School of Architecture and Planning , GGSIPU, Delhi. During my course of study, I have learned problem solving techniques, integration of theories into real life applications, and how to work in a group environment . As my journey ends at University School of Architecture and Planning (USAP), I look forward to trucing what I have learned into the corporate world to come up with new and innovative ideas for the global economy.





01

THESIS DESIGN^(n.)

Location : Noida Sec-105

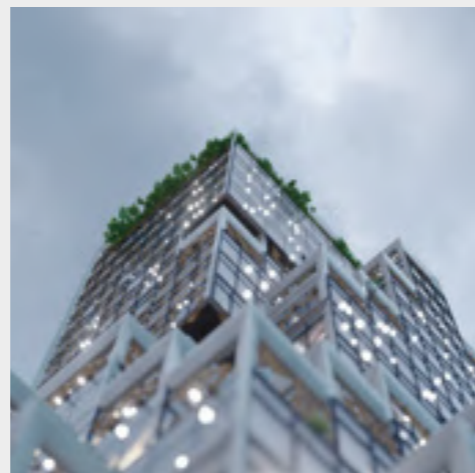
Year : 2020-21

Type : Business cum Convention Center

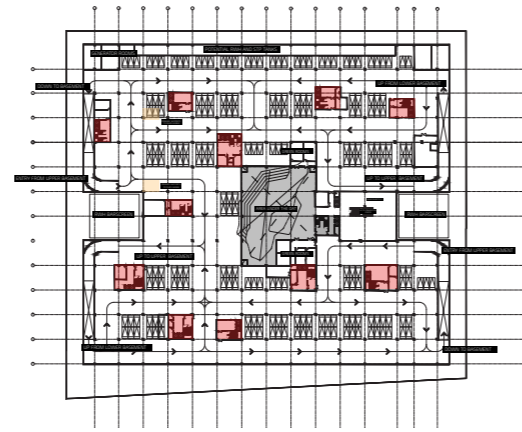
Softwares Used : SketchUp, AutoCAD, Illustrator
Photoshop, InDesign, Premier pro, Blender, Lumion

Involvement : Conceptualisation, Documentation, Site Analysis.

The idea of a sustainable skyscraper which is built as much for humans as for the flora and fauna that help revive the city and work as the biological hotspots as well as the knowledge hub of a city. It brings the people with close proximity and respect towards nature while the nature being conserved, flourishes along side . The main anchor for these entirely different entities will be the closed loop model that is cre-ated in the consumption and production creating a symbiotic relationship of nature and mankind.

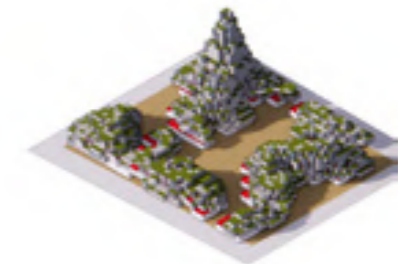
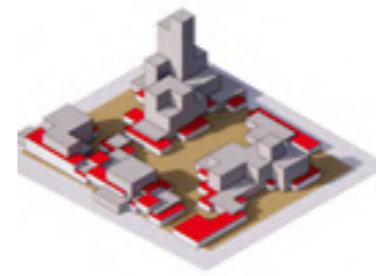


SITE PLAN (n.)



Floor Plans
Ground Floor, Basement and First Floor

The site plan demarks the entry and exit points which are on the diagonally opposite ends. The ground floor had to be designed in due consideration to the usage of the space to its maximum potential while making the space interactive and usable enough on the times of occasions too. The site may act as an exhibition ground in

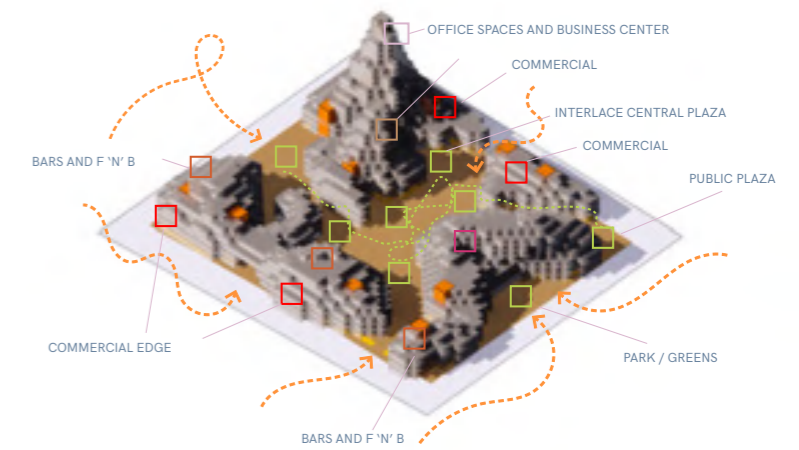
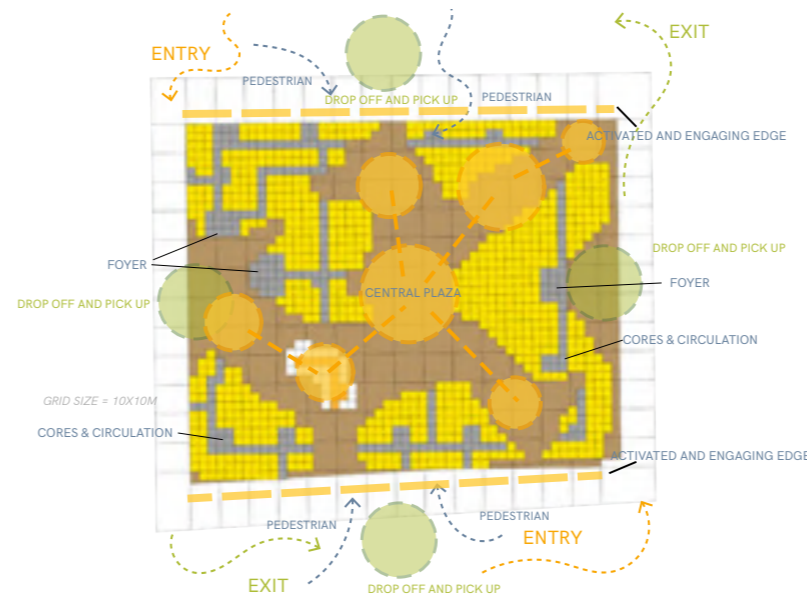


Form Development
Massing and Edge treatment

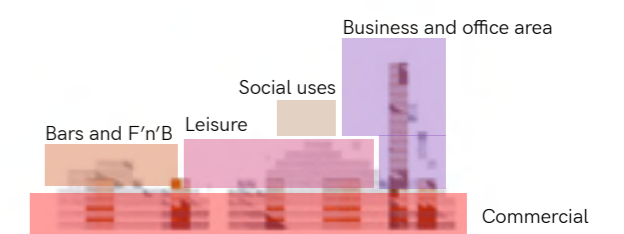
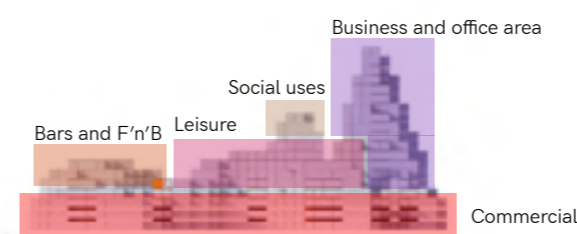
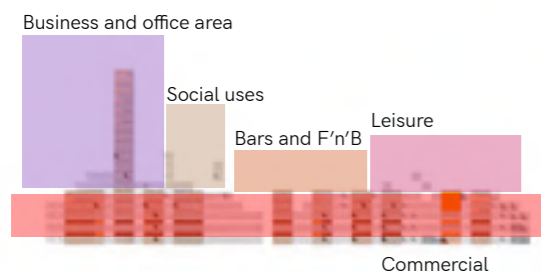
CONCEPT (n.)

One intriguing approach was pixilation . Pixilation allows provisions for stackable, flexible , mold-able , human spaces that can be shaped purely to the use . Modulation further reinforced this idea. The modules required to be flexible in use and stackable just like lego , so a unit behaves as a cell which come together to form spaces . For the spaces to work , the cells themselves had to be designed optimally .

The unit size of pixelation was to be carefully chose as explained in accordance with adaptability and optimal usage . The gird and massing was constantly sub divided for higher efficiency .



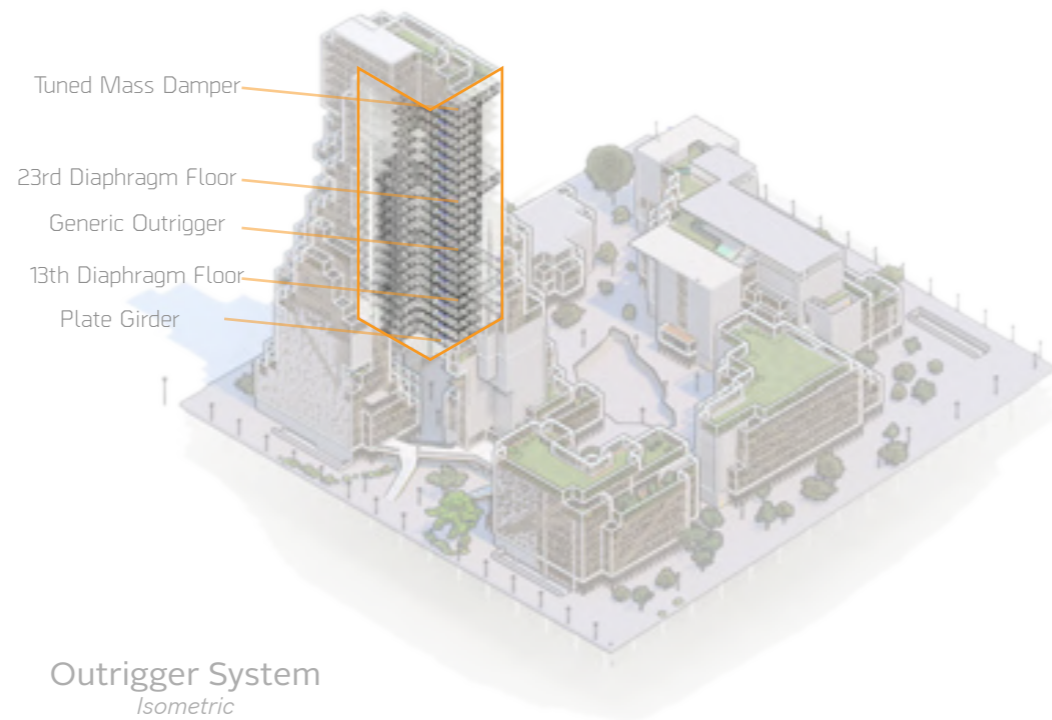
Function Distribution
Volumetric segregation



Function Distribution
Elevational segregation

OUTRIGGER SYSTEM (n.)

Outriggers are rigid horizontal structures designed to improve building overturning stiffness and strength by connecting the building core or spine to distant columns.



Outrigger System
Isometric

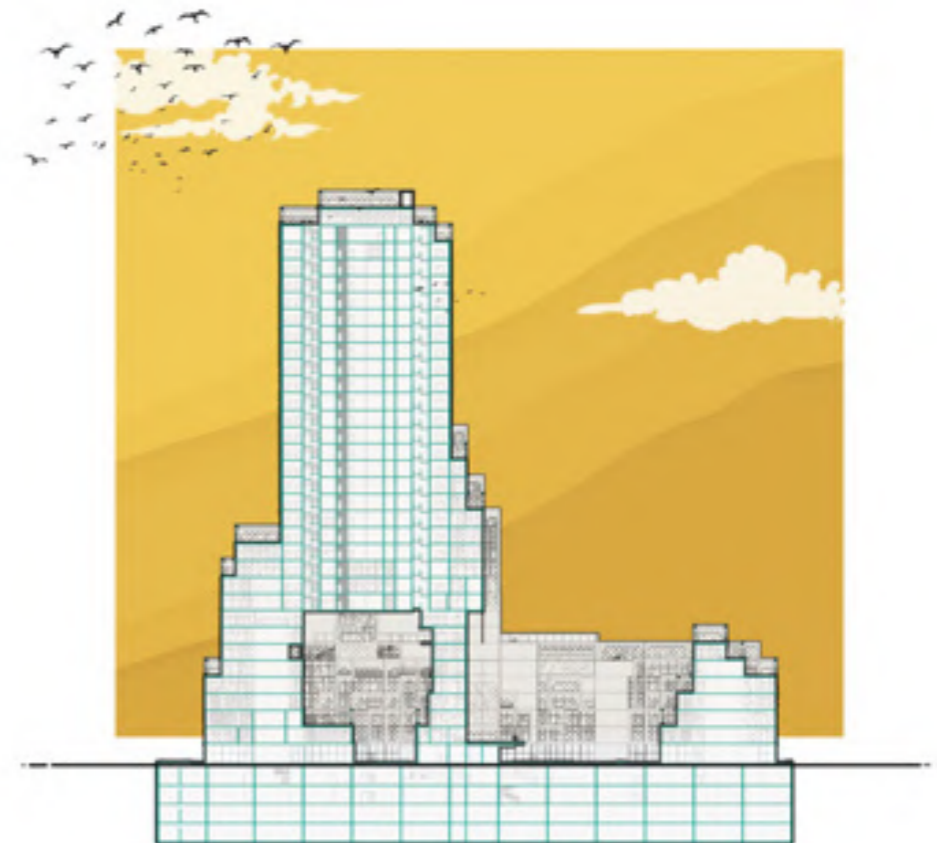


Crucial Floor plans
Outrigger system locations

The floor plan of nineteenth floor shows how a typical floor is in a constantly morphing state with a huge amount of rentable space with the mid rib of cores rigged for torsional stiffness and seismic load. The first diaphragm belt truss floor is the thirteenth floor, it houses 1/3 of the water storage tanks along with other services while the twentieth floor houses the remainder of the water storage and fire water storage tanks. It also consists of the refugee area which is open to the side as required. The belt truss here is the widest among all of the belt trusses. The last belt truss floor bracing the upper floors, the tuned mass damper and the expansion providing torsional stiffness to the entire structure.



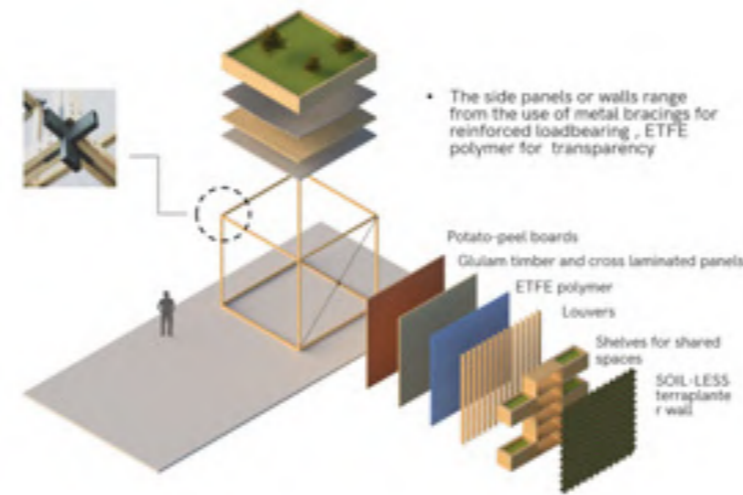
Elevational View
Site Elevation



Sectional View
Section through office building



Future possibilities
View from the road



The Stacks
Preliminary stackable modules

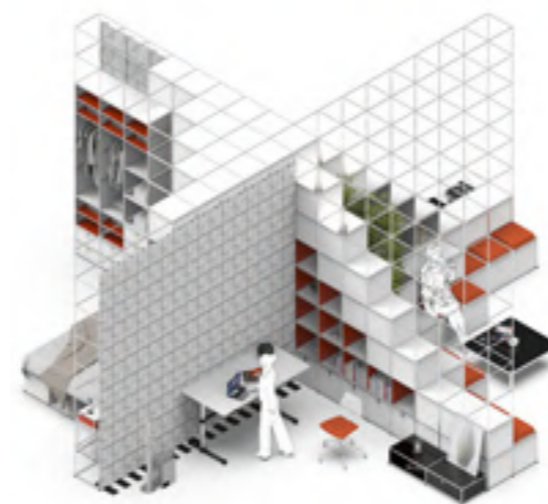
THE GIANT IKEA KIT (n.)

The pixelation allows for the structure to be infinitely moudable and the floor systems the placement of the cores are provided with keeping this in mind , the infinitely flexible spaces .

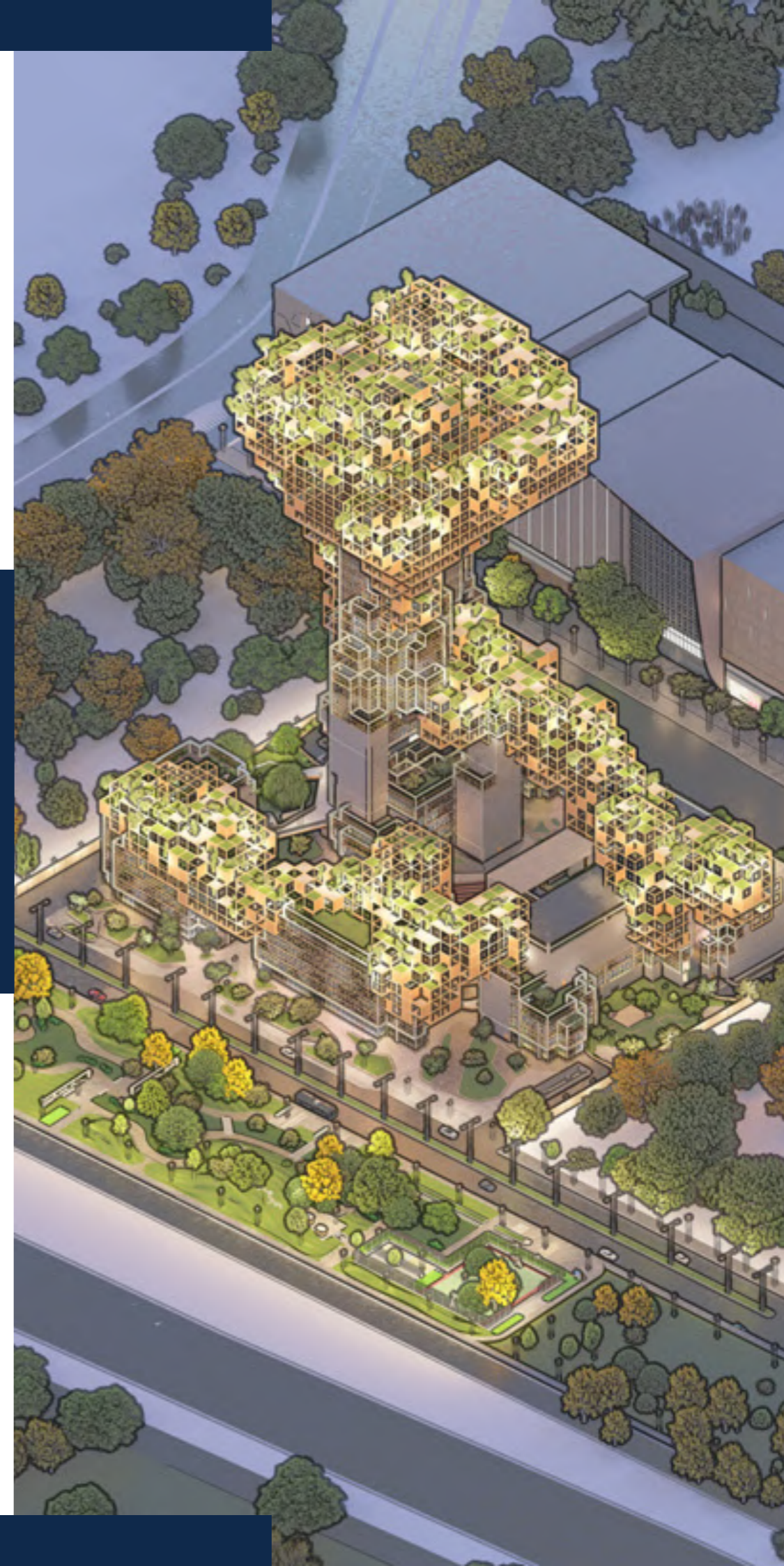
The project caters to a wide range of demographic but the sense of belongingness , that blooms out of tangible interactions and a sense of personalization by letting the users by allowing them to define the space according to them . Instead of providing spaces with aimless provisions of services, attractor points, interactive and resting spaces, architecture could be an elaborate narrative of spaces curated in such a manner that the spaces themselves behave as stories for the people to experience. The main idea revolves around the recognition of such spaces.



Orthographic View
Aerial view



Inspirational Graphic
Human sizes for modules





02

STUDIO ECCHKAY (n.)

Location : Delhi

Year : 2020-21

Type : Product Design and Rendering (Paid internship)

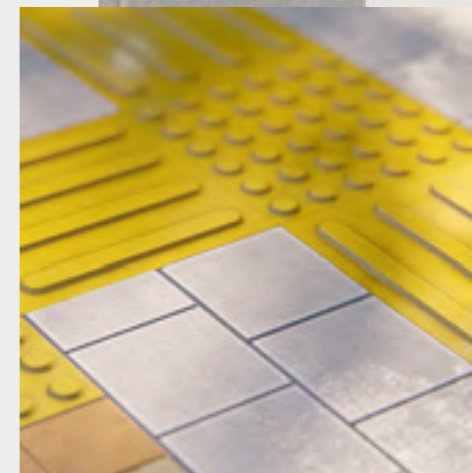
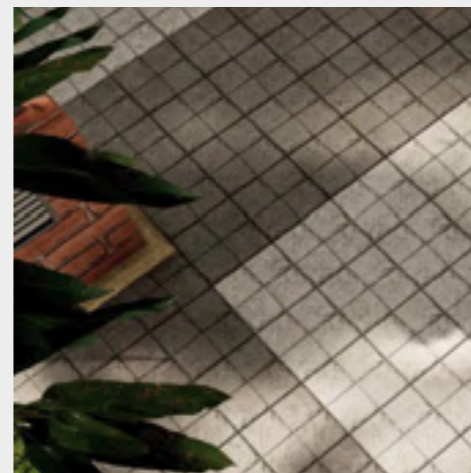
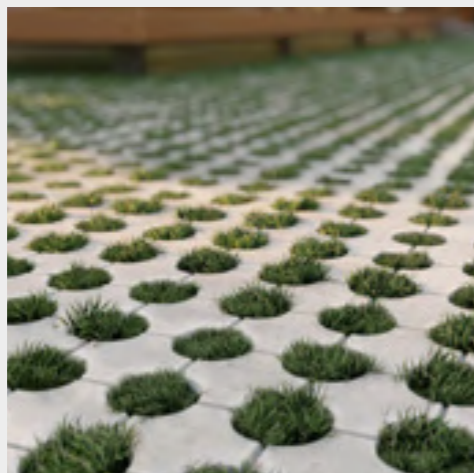
Softwares Used : SketchUp, Photoshop, Keyshot, Lumion

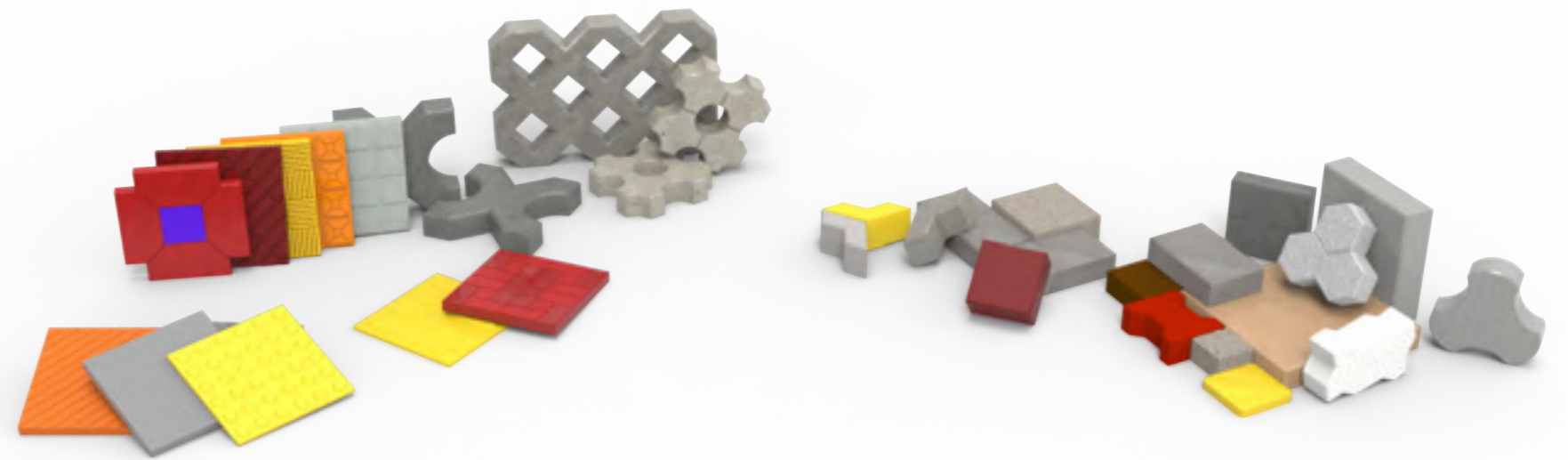
Involvement : Head of 3D modelling and visualization

Team : Yashasvi Singh, Rushil Gupta, Kuleen Choubey, Prachi Sharma

Designed by : Studio Ecchkay (Himanshu Kalra)

The internship became a medium for free flowing creative visualization and practical sustainability to fit in and produce a satisfactory result. Client management and coordination were among the most important skills development along with the attention to detail, the positioning of the product and the rebranding of a brand through its style and its position in the market.





Showcasing products
Foremost renders establishing the style

THE CATALOGUE *(n.)*

Studio Ecchkay had the opportunity to design a catalogue for DALAL TILES ,a corporate giant in the Delhi tile industry, showcasing its wide range of concrete, GFRC and GRC products. The 200 pages contain more than 800+ renderings that were conceptualized, modelled and rendered within 4 months. The project was more than satisfactory for the client, who then purchased some of the samples designed by the STUDIO ECCHKAY creative team and acquired the copyrights for the patterns that were designed by the team. The actual price of the project has not been disclosed, but on average such a project could cost around 10 lakhs, depending on the quality and scope of the work.



Understanding Textures
Diffuse , normal and height maps



Pushing boundaries of the geometry
Multi textured materials and labels



PRODUCT DESIGN *(n.)*

The visualization for Studio Ecch kay's products for their website and portfolio had to be curated in a particular style adhering to the style illustrated and the brand position that their website layout put forward. Modelling proved to be the more challenging part as it demanded the real life imperfections to provide a plausible base for the correct UV mapping of the textures. The set design was another challenge keeping them subtle yet elegant enough to create a good base for the products to really bring out the form and textures. The lighting was inspired from actual set lighting to the accuracy of real life photometry.

THE DETAILS *(n.)*

The attention to detail had to be a subtle effort helping showcase the product and not overpower it . The client demanded that the tangible feeling of the textures was conveyed and properly illustrated through the renders which . Photometry and cinematography like that of David Fincher , Sam Esmial was studied to create unconventional views that stood out in a sea of product renders





03

URBAN DESIGN *(n.)*

Location : Saket, Delhi

Year : 2020-21

Type : Urban Design and Redevelopment

Softwares Used : SketchUp, AutoCAD, Revit, Lumion, Photoshop

Involvement : Conceptualisation, Urban Road Design, Structural Design, Documentation, CAD Drawing

Team : Yashasvi Singh, Rushil Gupta, Kuleen Choubey, Prachi Sharma, Manisha Kumari

The site came from Saket and had to be the epitome of human-centered, sustainable and network-based exercise behaviour in and. The site was developed in two phases: macro and micro with a conscious approach. Trying to create a human-centered movement pattern while providing 3 connectivity loops as a binding factor for the location and at the micro level. A newly invented character for the Anupam complex, which both technologically and functionally shows the future of the community complex in the world of architecture.





04

COMPETITION (n.)

Location : Delhi

Year : 2020-21

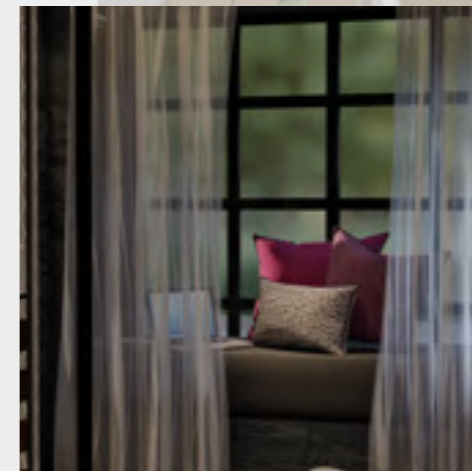
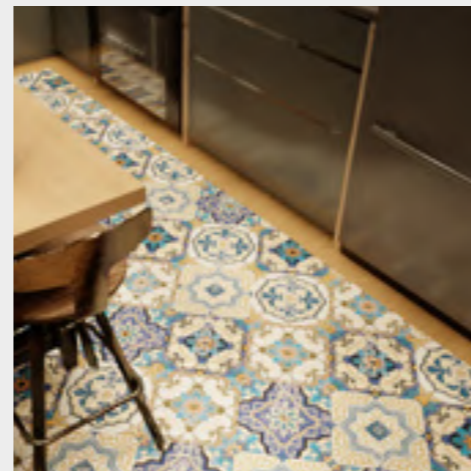
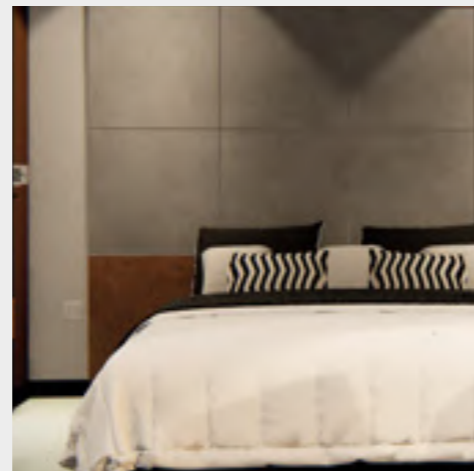
Type : Interior design competition

Softwares Used : SketchUp, Photoshop, Keyshot, Lumion

Involvement : Head of 3D modelling and visualization

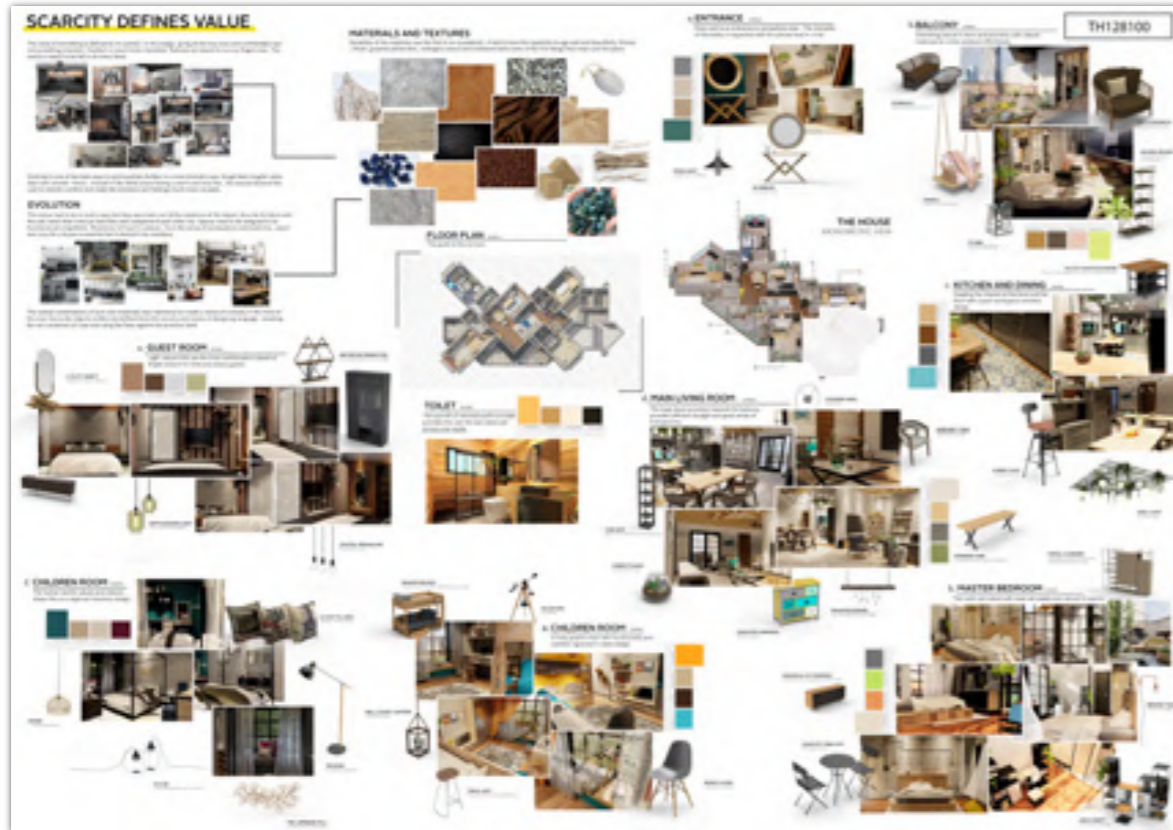
Team : Yashasvi Singh, Rushil Gupta, Kuleen Choubey, Prachi Sharma

Comfort is meant to be cherished . Textures are meant to run our fingers over. The world is meant to be felt in every facet.



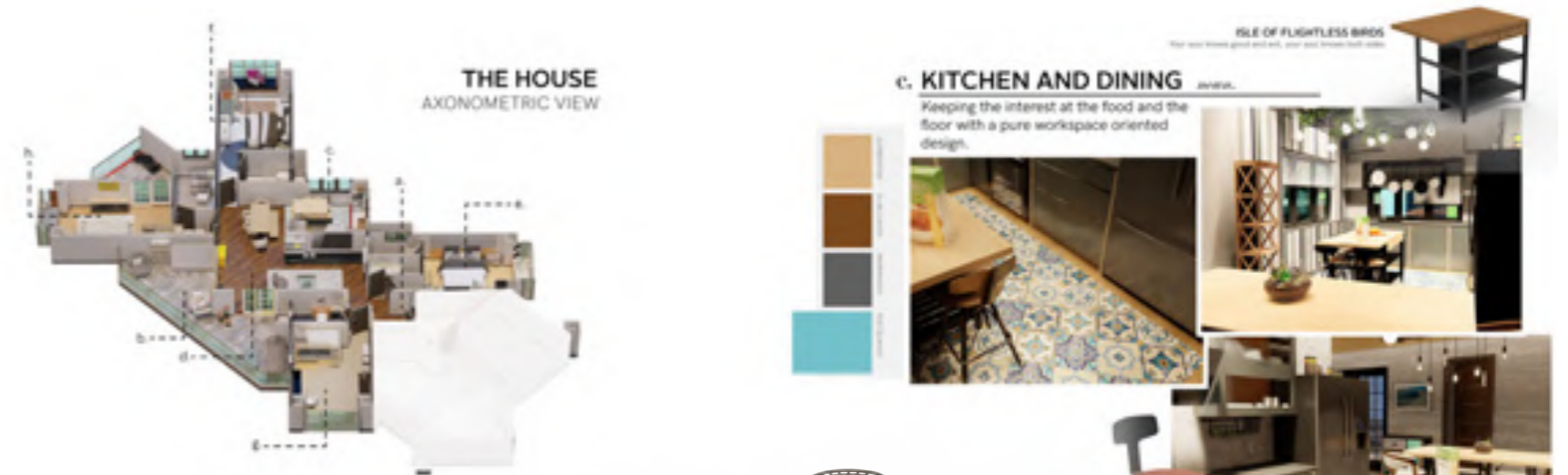
DESIGN PROCESS (n.)

The value of something is defined by its scarcity. In this design, going all the way cozy and comfortable was not something intended. Contrast is one of the best ways to elicit qualities further in a more dramatic way. Spaces need to be designed to be functional yet empathetic. Monotony isn't just in colors, it's in the sense of composition and touch too, warm and cozy for a house is essential but it shouldn't be overdone.



THE IDEA (n.)

Rough feels rougher when kept with smooth. Scarcity defines value. Hence, instead of the whole place having a warm and cozy feel, the spaces demand the user to cherish comfort and make the emotions and feelings much more valuable.





05

GRIHA COMPETITION (n.)

Location : Siliguri, West Bengal India

Year : 2019-20

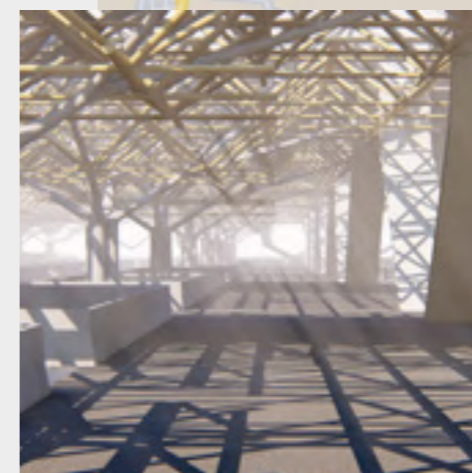
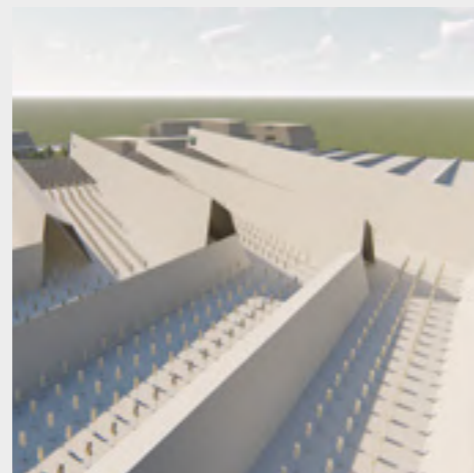
Type : Airport Design

Softwares Used : SketchUp, AutoCAD, Revit, Lumion, Photoshop

Involvement : Conceptualisation and Form Development, Designing and Visualising the Departure Terminal, 3D rendering and Visualisation

Team : Yashasvi Singh, Rushil Gupta, Kuleen Choubey, Prachi Sharma, Hardik Aggarwal, Avni Vishnoi, Jitesh Chadha, Rahul Yadav

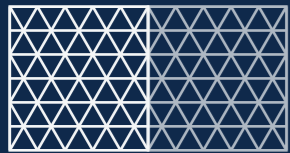
Designed for Bagdogra, a city in the Darjeeling district in West Bengal, the airport won the university's fourth place in the ANDC GRIHA 2019-20 trophy. The shape of the terminal building developed from the octagons in Buddhism, faith followed locally. The ceiling is the signature of an airport that follows the genius of nature. All rainwater is collected with roof drains and gutters in landscaped tea gardens. 75 percent of the waste generated at the airport is treated.



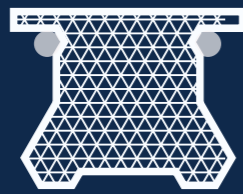
THE DESIGN (n.)

Bagdogra is a town of Darjeeling district in the Indian state of West Bengal. Currently, this international airport has flights connecting Paro and Bangkok internationally. Airways domestically connect to Kolkata, New Delhi, Mumbai, Chennai, Bangalore, Hyderabad, Ahmedabad, Dibrugarh and Guwahati. The design incorporated a number of design techniques all intertwined with the systems that are essential for its operations.

FORM DEVELOPMENT



Buddhism is mainly influenced by four physical elements, earth, water, fire and air. All of these elements can be depicted using the same shape of a triangle. Hence, the matrix lead to the initial form of the terminal building



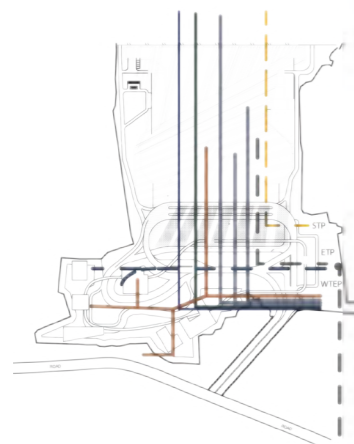
STAGE 1
Matrix fit into the Form and also goes with basic zoning. Acute spaces forming Niches.



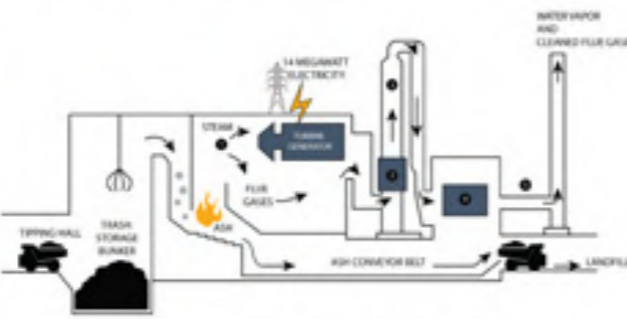
STAGE 2
Funnel formation in the middle is a transition between boarding and check in area. Elimination of small niches and working on 60 degree angle.



STAGE 3
Working on obtuse angles for better functioning. Octagons in 45 degree for better structure. Formation of public spaces on eastern and western facades.



SWAC MANUFACTURE COMPANY: SNOWFLAKE

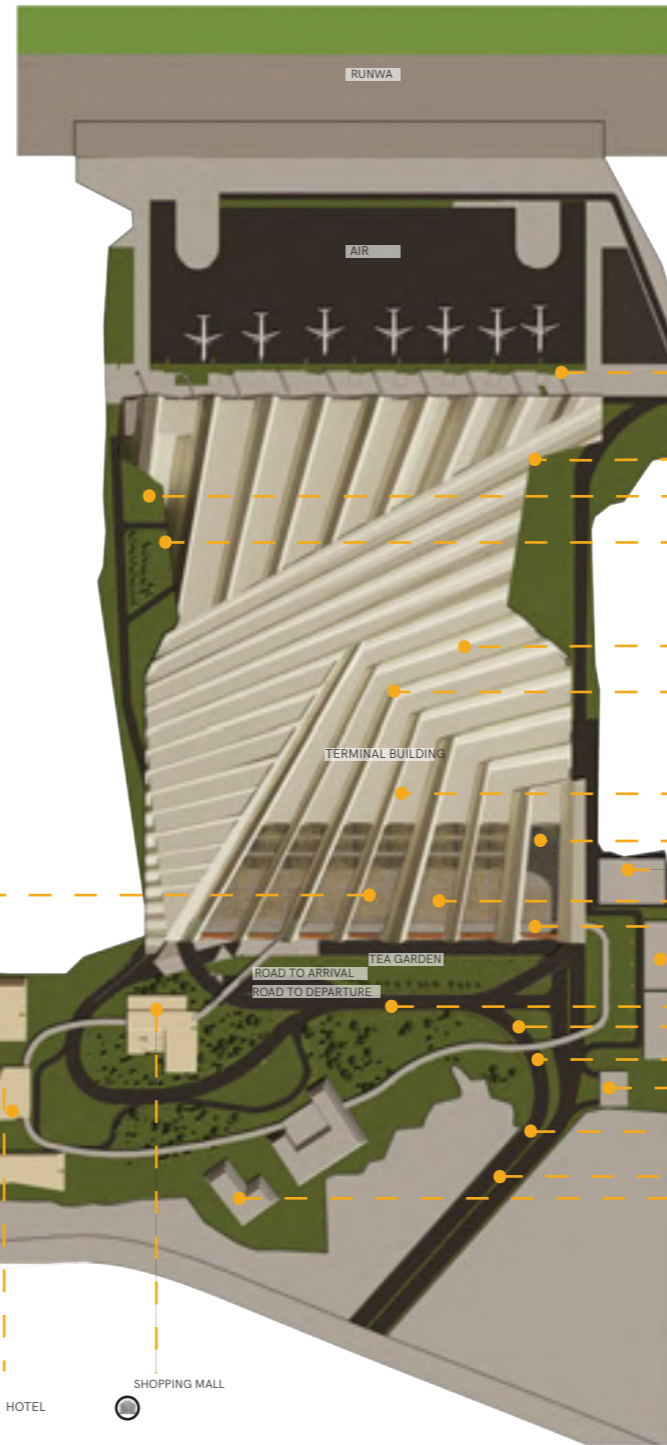
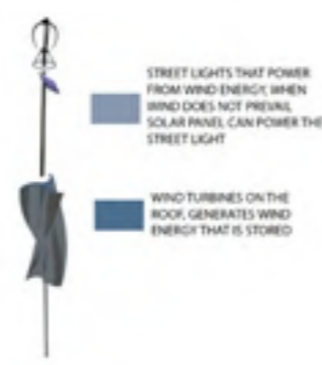
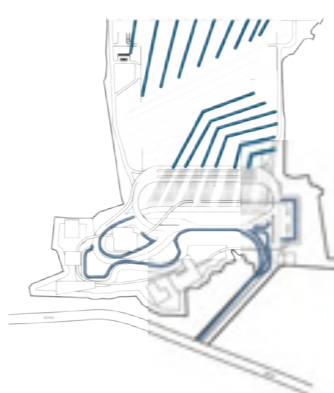


WASTE TO ENERGY PLANT (WTEP)

SPACE TO STORE DIFFERENT TYPES OF WASTES BEFORE TREATMENT/ RECYCLING

STP AREA: 2400 SQ. M.	STP CAPACITY: 2555 MLD
USE OF TREATED WATER: 60% HORTICULTURE 40% FLUSHING	WASTE WATER TREATED ANNUALLY: 2520 MLD AS PER CPCB NORMS
TEA FIBRE FROM TEA WASTE CAN REPLACE ACTIVATED CHARCOAL	STP CAPACITY: 8MLD
	WASTE WATER TREATED ANNUALLY: 2520 MLD AS PER CPCB NORMS

LEARNING BY SEEING
PLASTIC SHREDDER WALL
PLASTIC WASTE IS SHEDDED AND CAN BE SEEN THROUGH A TRANSPARENT WALL.

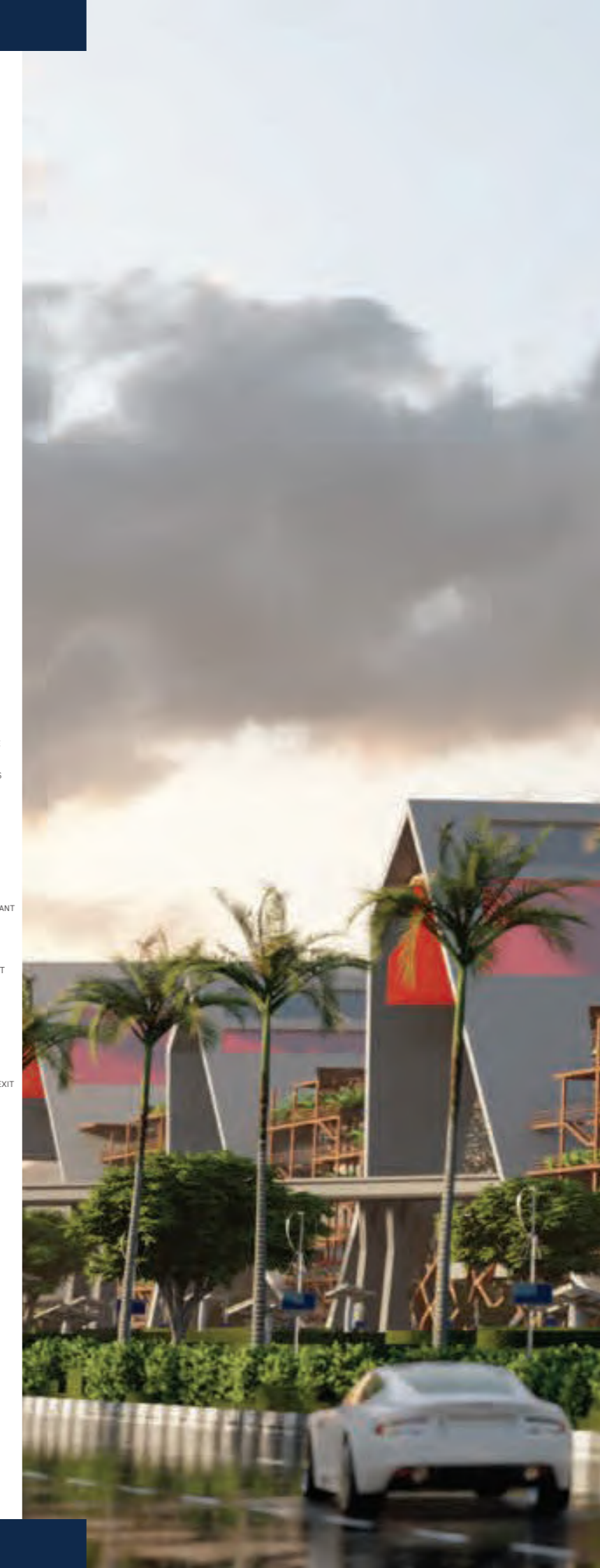


- ROTUNDA
- SERVICE YARD
- VIP PARKING
- VIP ENTRY
- WIND TURBINE
- SOLAR PANELS
- FORECOURT
- SPACE FRAME
- SEWAGE TREATMENT PLANT
- PARKING
- URBAN FARM
- WASTE TO ENERGY PLANT
- STREET LIGHT
- PEDESTRIAN WALKWAY
- VEHICULAR ROAD
- PETROL PUMP AND GAS STATION
- ENTRY EXIT
- APPROACH ROAD
- CONVENTION CENTER



SCALE - 1:2500

The Site Plan
Vedana Airport





06

MIXED USE DEVELOPMENT *(n.)*

Location : Siliguri, West Bengal India

Year : 2019-20

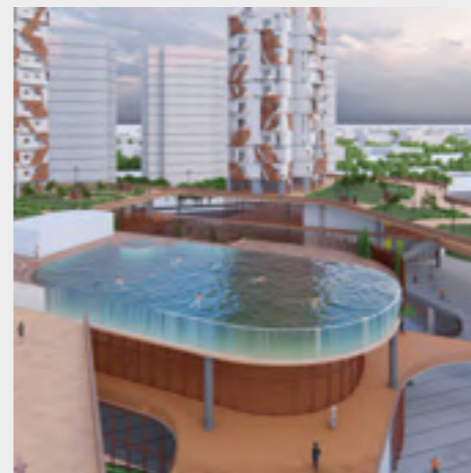
Type : Mixed use Development

Softwares Used : SketchUp, AutoCAD, Revit, Lumion, Photoshop

Involvement : Conceptualisation and Form Development, 3D rendering and Visualisation

Team : Salil Sharma , Kuleen Choubey , Archit Jaiswal , Piyush Jain

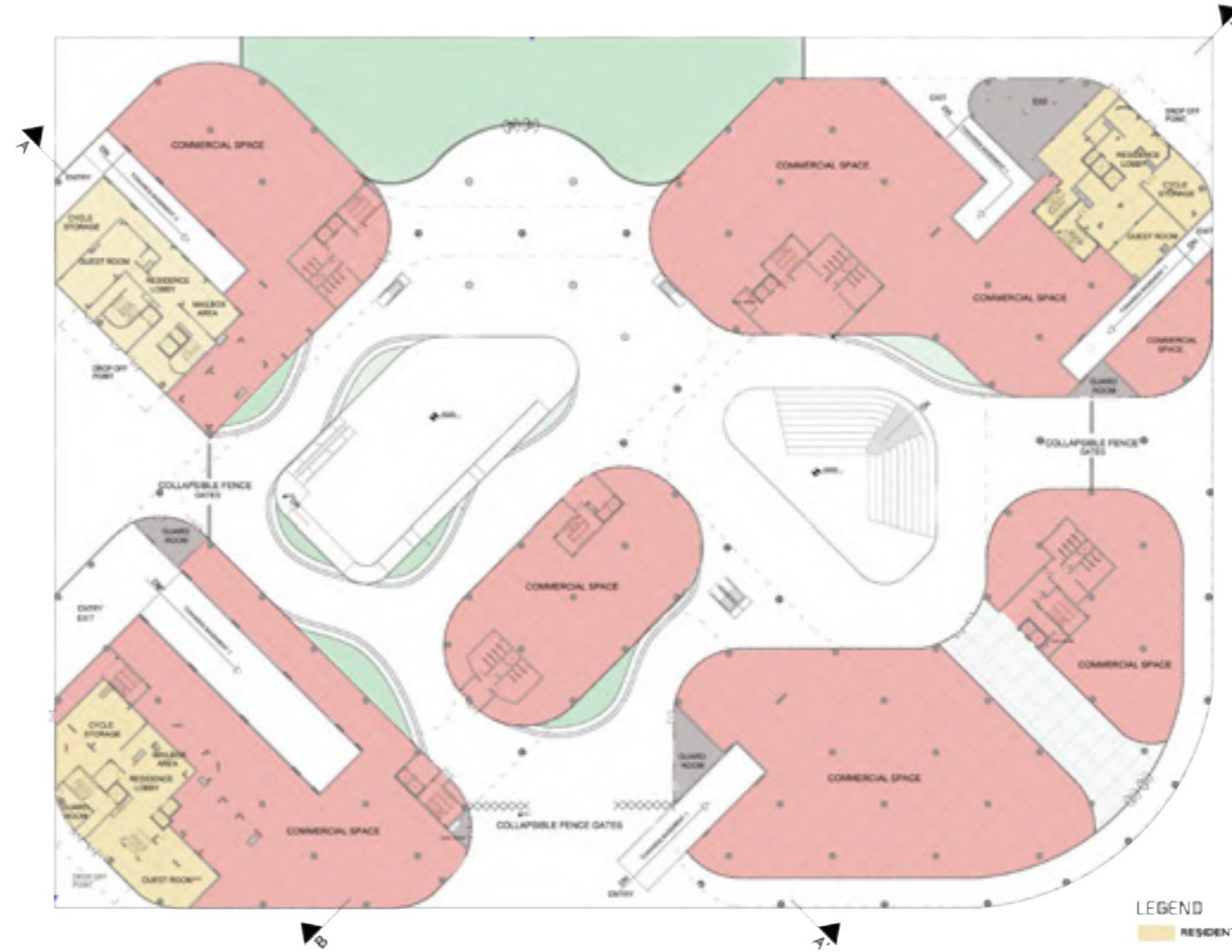
A megacity of 20 million people and more than 18 million vehicles without any proper pedestrian pathway, is thought to be impossible. Since the project had a commercial as well as residential footprint. With little to no residential area nearby, there should be a cardinal reason. The project wanted it to be "Talk of the town". However, considering Delhi's lack of quality footpath, the thought was that it'd be better to make it "Walk of the town".



THE CONCEPT (n.)

This was all about sewing the whole mass together. Which trickled down to formulating the circulation, the bridges And connecting the terrace of the podium for it to be exploited by the Residents in the best possible manner. Furthermore The project was all about providing an experience for the visitor, so, we hewed the podium in a way that it provides each space its unique identity. An island in the middle breaks the huge central open space into two at the same time encourages the visitor to walk even more.

The concept revolves around finding the perfect balance between the aforementioned two phrases. The idea is to design space so eccentric, that it gets added to one of the tourist spots of the capital.



Crucial Floor plans
Ground Floor , Basement , Podium level



SOLVING THE MOVEMENT (n.)

The site is located near railway station metro station and bus stand abutts it. A perfect location for transit-oriented development lying at centre of the capital. It holds a premium advantage. With two edges lying on the primary road. Access points for clearly predicted. keeping in mind the location of the bus stop, the road coming from the metro station and the railway station. The island acts as a dividing element to the whole building block full stop the split that takes place is visual and in no way forces someone to take a particular path making the circulation free Pedestrians are like water, any hindrance in the way they will cross it through the smallest aperture, showing the free flow of the pedestrian pattern. Massing encourages the visitor to enter the site through large openings and causes no blockage to one's path.



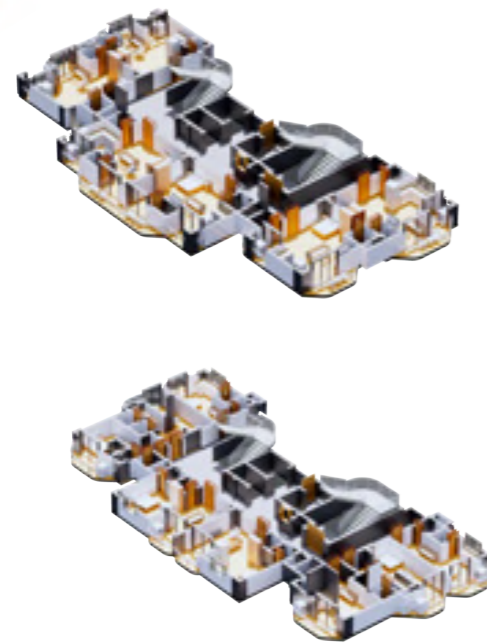
Site context

Access Points

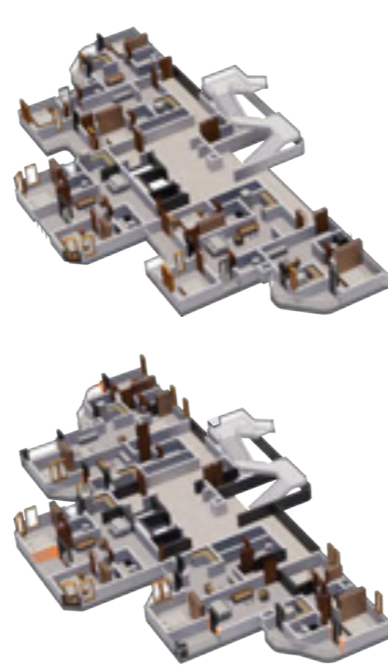
The Islands

Pedestrian pathways

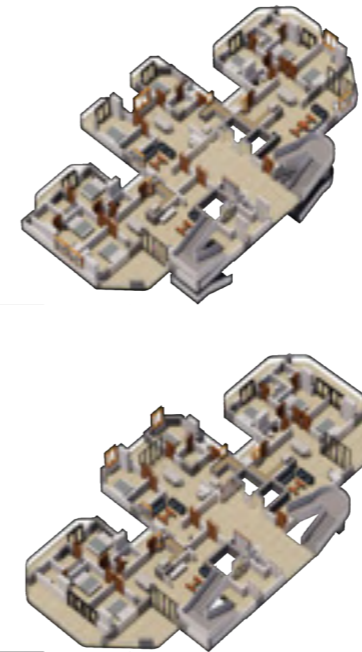
Massing for walking



Tower 1
Plans and isometric



Tower 2
Plans and isometric



Tower 3
Plans and isometric

THE TOWERS (n.)

Changing uses at the ground level was considered - for example designing for privacy (such as raising ground-level residential units above street level) can make it extremely difficult to change the street front spaces for retail or commercial uses at a later date. The inspiration from the case studies and our parenthesis led to this design form. All parameters were kept in mind while adhering to the guidelines taken from the Master plan of Delhi, Auckland mixed-used development, Manual of the city of Antioch .

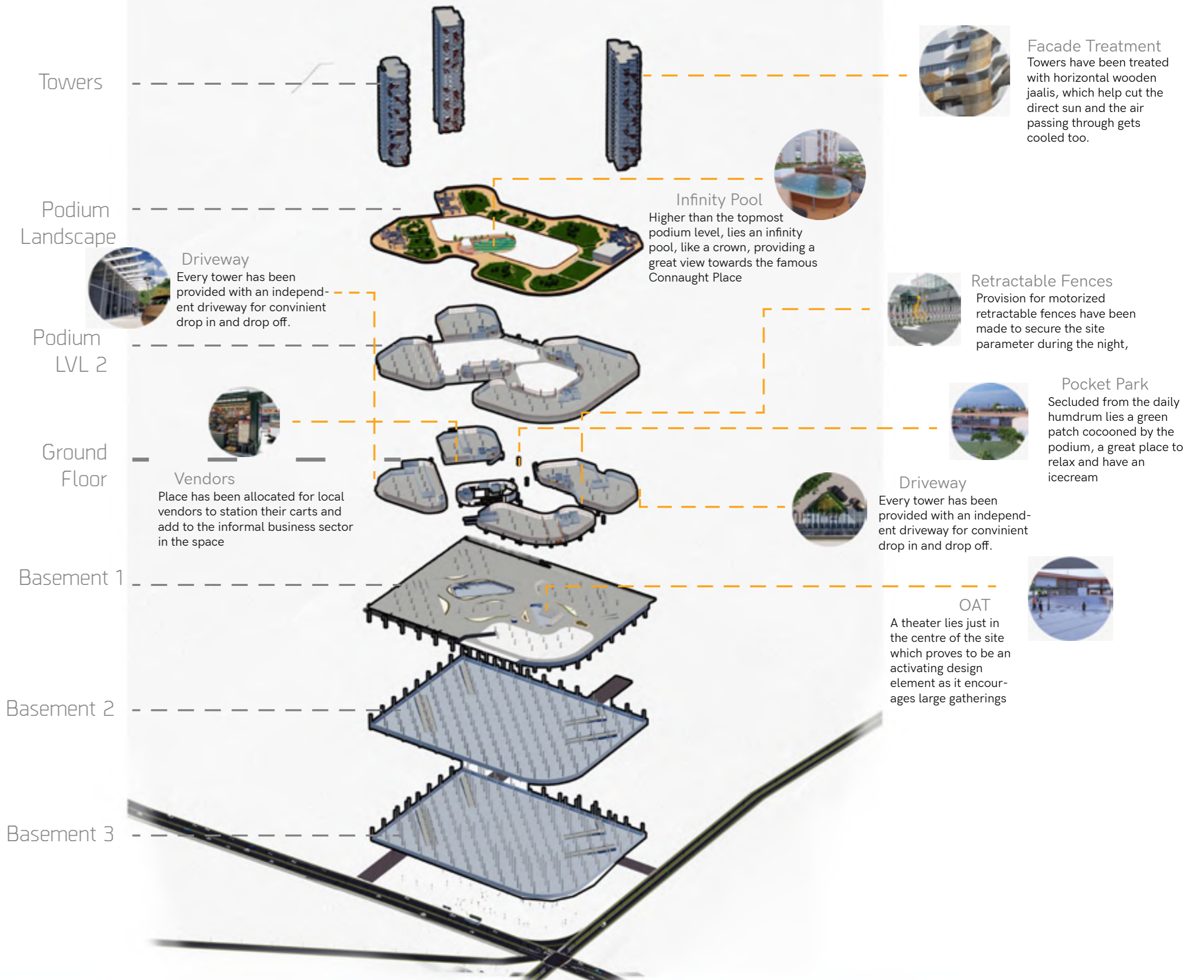


Sectional View
Through the main OAT and the podium



Elevational View
View from the road

DESIGN ELEMENTS





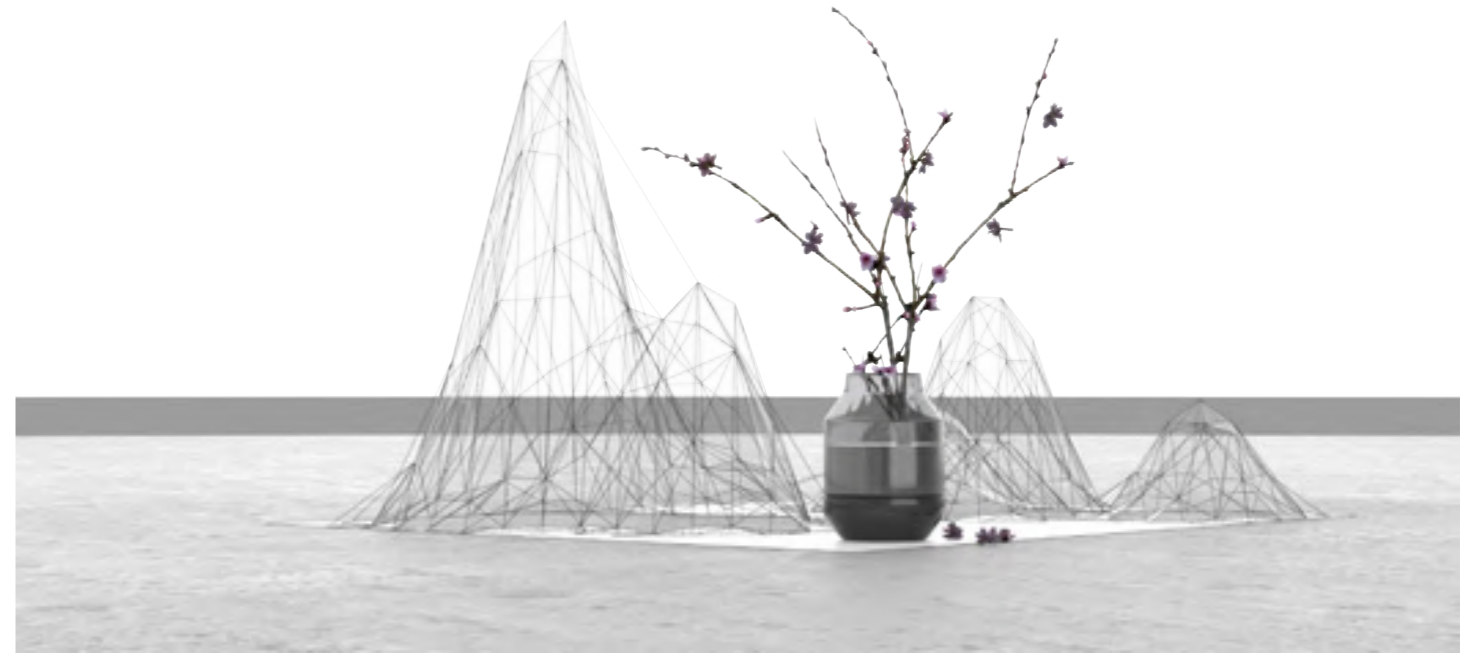
MISCELLANEOUS

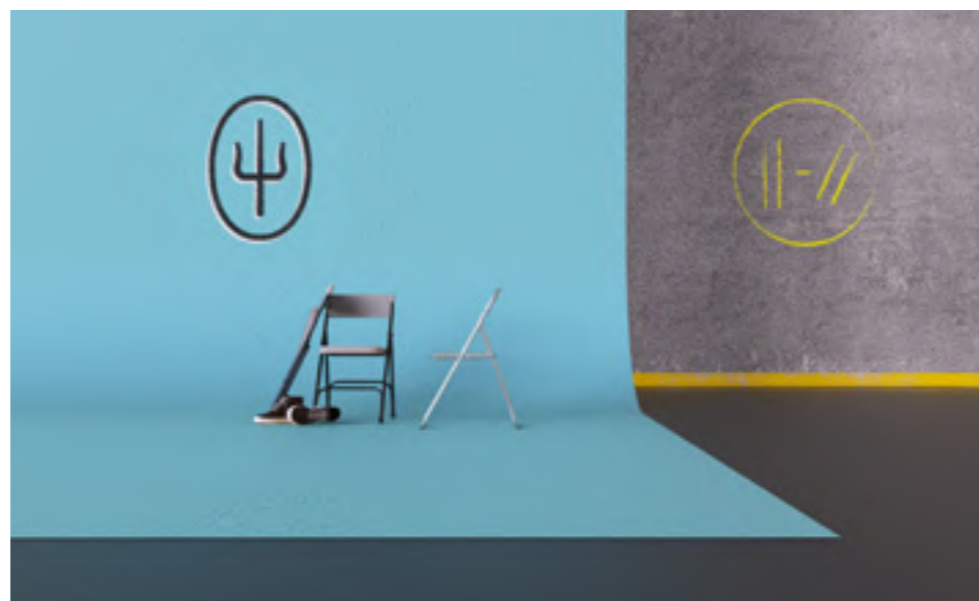
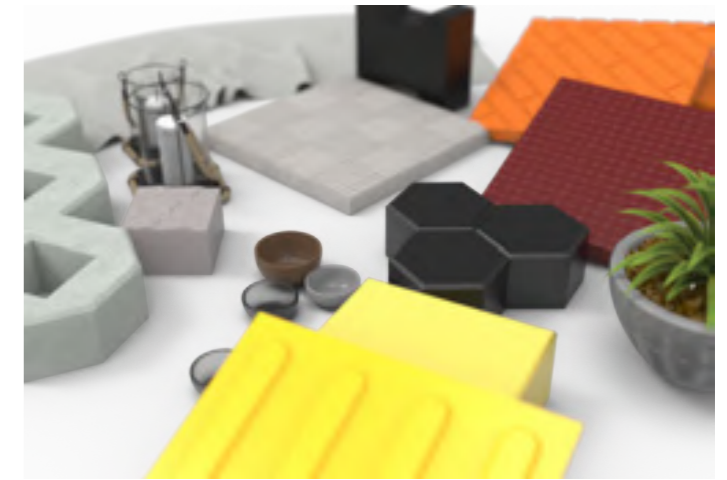
(n.)

Year : 2018-21

Softwares Used : SketchUp, Twinmotion, Blender, Lumion, Photoshop, Keyshot , Marvelous Designer

These projects include the honorable mentions of the projects that where I wasn't the part of the core designing team but was at the execution level of the effort and had great opportunities to learn from , both seniors and juniors alike .Also they display the wide array of skillset cultivated over the years in real life applications .







ARCHITECTURE PORTFOLIO

The most fascinating view of architecture is the relationship between scientific and humanistic topics, what touches me is that the design of a building must harmonize between theoretical, social, functional and technical characteristics and at the same time be related to the context, in every project I have worked on I have always tried to ensure a balanced treatment of these aspects and to take into account the needs of the built environment in the most realistic and objective way. It is of great relevance how architecture works on many levels, from the territory to the city, from

spatial problems to structural details but I've also tried to relate to the professional world and with some additional activities: in all these experiences I've realized how important it is, and in fact it is, to go through many topics and requirements that a project needs to be can, from teamwork and theoretical questions to dealing with builders, engineers and building regulations. I came to the conclusion that I am not only fascinated by the part of the purely architectural design, but also all the other knowledge that an architect has to acquire in order to work as one in this world

KULEEN