PORTFOLIO

AARUSHI GUPTA

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HELLO,

I am Aarushi Gupta, a fourth year undergraduate student of Architecture, at the Indian Institute of Technology, Kharagpur.

One of the most fascinating things about Architecture is the balance between the aesthetic and scientific part of it. It's part of a harmonius balance between a form and the structure behind it, the strike between the concept and the engineering. To appreciate bigger pictures taught me that Architecture is an optimisation problem, and made me realise that an absolute system for solutions is inept sometimes. I have appraised how a batch of 37 can solve a single design problem in 37 different solutions, each prioritizing a specific parameter over others.

IIT Kharagpur has been an estuary of opportunities for me, allowing me to surpass and raise my benchmarks. The following is a compilation of some of my academic and extracurricular projects throughout my years of study as a student, that reflect my passion for architecture and design. I hope that I can continue to work the same way in the future, wherever I am employed.

CURRICULUM VITAE

EDUCATION

Bachelor of Architecture, 2017-2022
Indian Institute of Technology, Kharagpur
8.36

Minor in Mathematics and Computing, 2017-2022
Indian Institute of Technology, Kharagpur

Higher Secondary Certificate, 2017
Maharashtra State Board of Secondary Education
88%

Secondary School Certificate, 2015
Indian Certificate of Secondary Education
94%

SKILLS

Public Speaking:
Participated in a discussion panel about Corruption hosted by the Ministry of Human Resources and Development and won second place

Dramatics:
Member of the English Dramatics Society, IIT Kharagpur, participated in 4 productions and an inter collegiate fest
Part of the silver winning dramatics contingent in the third Inter IIT SoCult Meet

Designing:
Part of the gold winning Rangoli team of Sarojini Naidu/ Indira Gandhi Hall of Residence, IIT Kharagpur

INTERESTS

Digital | Graphic | Design | Painting | Sketching | Reading | Baking

PROFESSIONAL EXPERIENCE

Nucleus Office Parks (The Blackstone Group), Mumbai
Design Development Intern Apr '20- Aug '20

Worked on office rehabilitation plans for largest commercial tenants in India to create 'New Normal' for work in Covid-19

Designed technical layouts and specifications for commercial tenants to maximise efficiency of space, worked on designs of medical rooms, office lobbies of prominent commercial assets

Worked on installation of logo signages on asset facades; created reports on enhancements of office landscapes, increased security
enchancements and temporary monsoon protections against rain for all offices, and communication with possible vendors

Talati and Panthaky, Mumbai
Architectural Intern May '19- Jun '19

Worked on working drawings, making detailed drafts of construction and wall details, drafted technical elevations of buildings on AutoCAD with high detailing; worked on detailed technical sections for the same

Designed interior elements of lobbies in buildings, making technical layouts and placement; fixed plans and models in SketchUp and AutoCAD

POSITIONS OF RESPONSIBILITY

Design Head, Spring Fest Apr '19- Jul '20

Co-Led a 3 tiered design team of 28 members; supervised the entire design schedule with a budget of INR 21 lakhs+, ensured timely delivery of digital and print media for publicity in 800+ colleges, 550+ corporates and a social media reach of 270,000+ subscribers

Unit Secretary, NASA India Apr '18- Feb '20

Elected by an electorate of 300+ students, managing 25+ annual departmental activities and events with a budget of INR 2.25 lakhs+
Represented IIT Kharagpur at 4 annual meetings and 2 students' conventions, leading teams of 45 to conventions all over the country, winning 7 trophies overall, among 35+ colleges

WORKSHOPS

Bioclimatic Design Workshop

Designed a housing complex for visiting faculty in campus, in a Hot and Humid environment under the guidance of Ar. Dr. Oman Rabie, SMArchS-MIT, MSc-AA; Founder, Unitary & Lecturer, Auroville Earth Institute

SOFTWARES

Revit, AutoCAD, Microsoft Office, Lumion, Sketchup, StaadPro, Flow Design, Photoshop, InDesign, Illustrator, Lightroom, Python, C++, C

AURORA
MUSEUM OF ASTRONOMICAL WONDERS

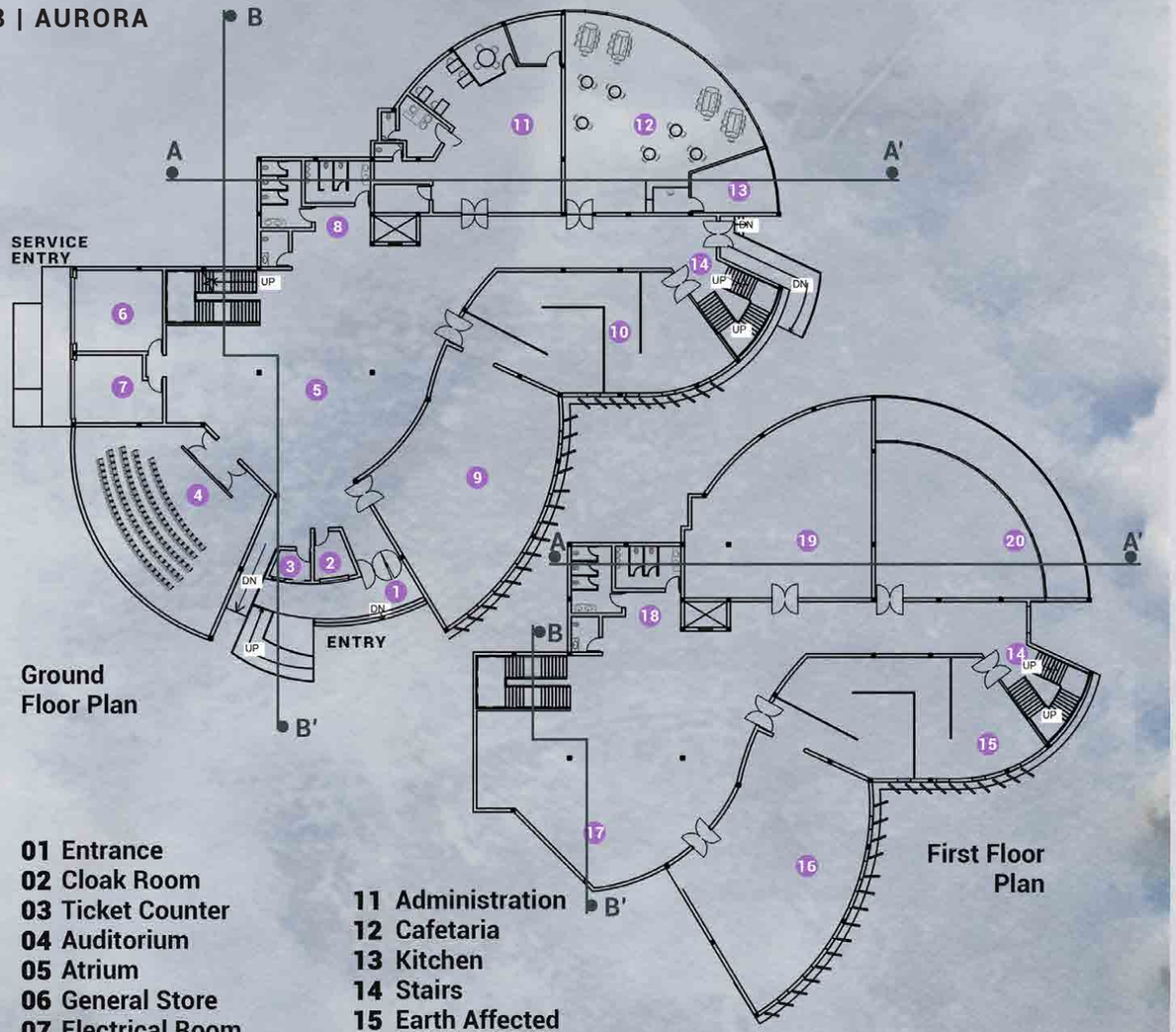
01

Type: Academic Project
Location: Srinagar, India
Climate: Cold
Site Area: 7500m^2

This studio project is aimed to design an Astronomical Museum of Wonders and Sky Watching Centre. The proposed site is located in Sri Nagar, Jammu & Kashmir, India. Tourists, both international and national come to the center for exploring astronomical wonders, traditional depiction of solar, lunar and other planetary systems in Indian mythology and literature along with its international counterpart, information about the development of astronomical science through ages, recent space missions and research into the possibility of habitiation of other planets, in addition to the main activity of sky watching.



Back Elevation



Ground Floor Plan

First Floor Plan

01 Entrance
02 Cloak Room
03 Ticket Counter
04 Auditorium
05 Atrium
06 General Store
07 Electrical Room
08 Washrooms
09 Mythology & Astrology
10 Extent of Living
11 Administration
12 Cafetaria
13 Kitchen
14 Stairs
15 Earth Affected
16 Man on a Mission
17 Seating
18 Washrooms
19 Future City
20 Sky Watching Deck

FLOOR PLANS



View from Entrance

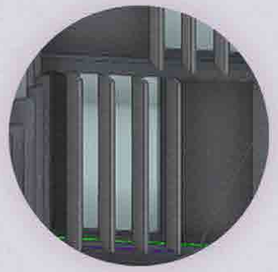
DESIGN FEATURES



Fenestrations in circular form on the roof and facade which look like stars from the outside during the night and from the inside during the day



Ramplike feature on facades meant to look like Saturn's rings in the solar system



Vertical louvres are placed on the windows that move with the sun's direction to prevent glare but still let sunlight inside the rooms.



Roof form slopes to avoid rain water accumulation as well as avoids cold winds from the south west and the winter winds



Form of building is dereived from a mobius strip and an infinity sign, golden ratios are incorporated into the design.



Open to the sky retractable ceiling to let telescope out for viewing



Rough gray surface of wall similar to surface of moon and lights act like craters, lets in rays of light in day & sparkles from outside at night



The pedestrian pathways have solar paver blocks that store solar energy within them as people walk on the pathways

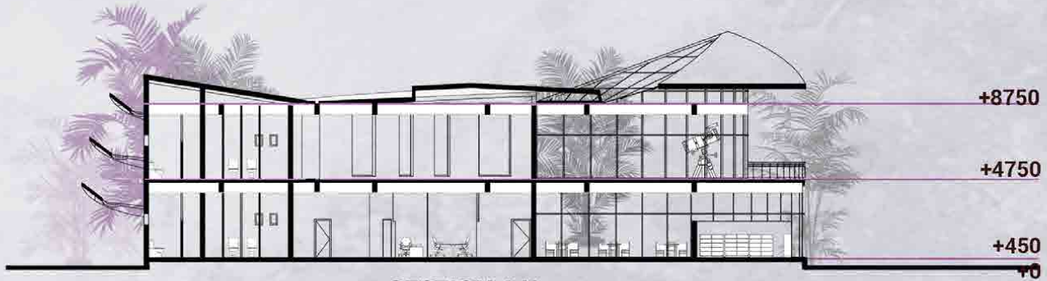


Entrance shaped like a globe with purple accents as reference to earth and aurora borealis

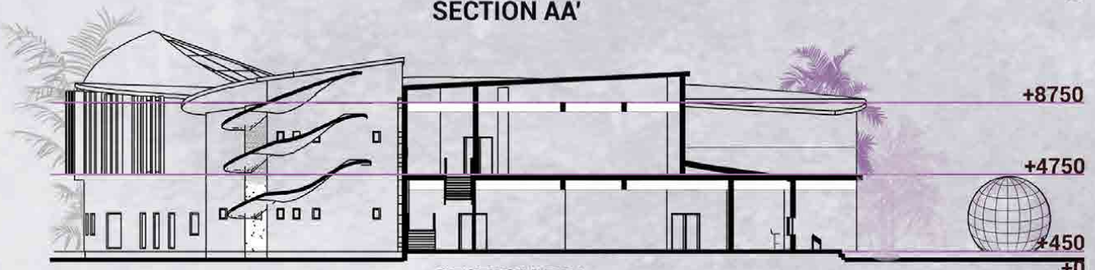


Front Elevation

SECTIONS

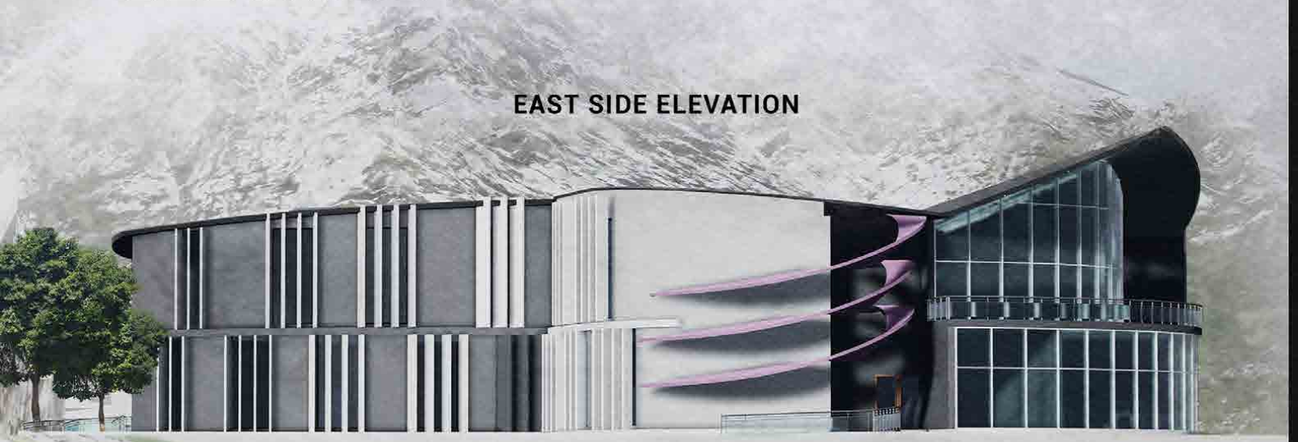


SECTION AA'

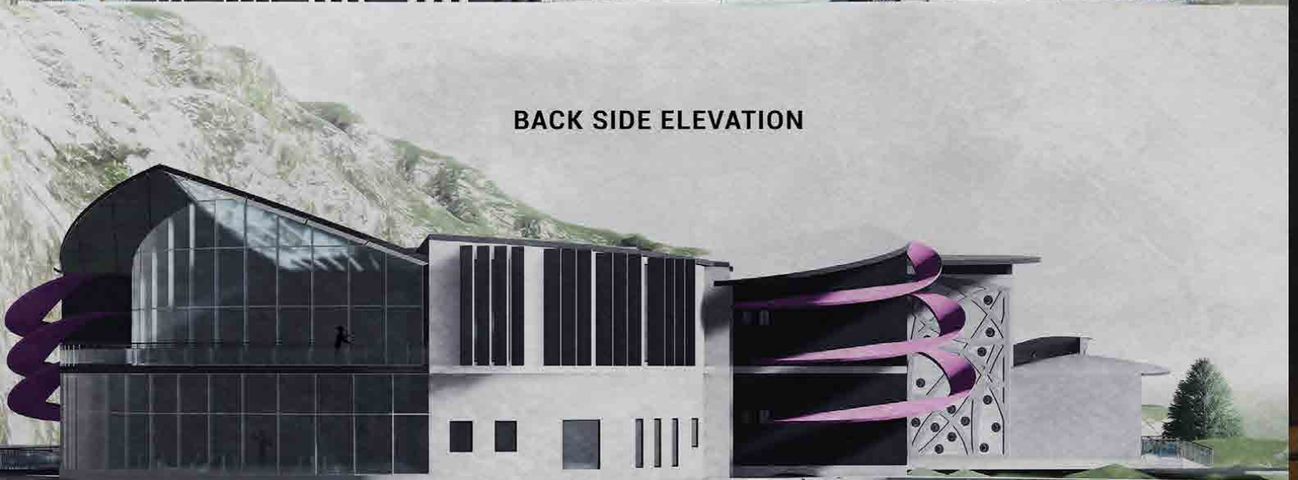


SECTION BB'

ELEVATIONS



EAST SIDE ELEVATION



BACK SIDE ELEVATION

MYTHOLOGY AND ASTROLOGY

01

About the myths surrounding astronomy and the astrological aspect of planetary movements

The ceiling is painted with constellations of myths and stories.

EXTENT OF LIVING

02

Gallery about the earth and its relationship with space, along with the recent happenings that led to the current state

The ceiling is made to look like a meteor shower falling down onto the floor

EARTH AFFECTED

03

A gallery about the universe and all of its various different phenomena

A science on a sphere display with a large scale model of the earth

MAN ON A MISSION

04

Gallery about man and astronomy and recent missions to know and understand space.

Scaled model of a rocket is used as an exhibit

FUTURE CITY

05

Gallery about sustained housing in outer space and the future of earth

Present is a scaled model of a hypotheticial futuristic city

MUSEUM GALLERIES



Gallery One

BODHI
COMMUNITY AND WELLNESS CENTRE

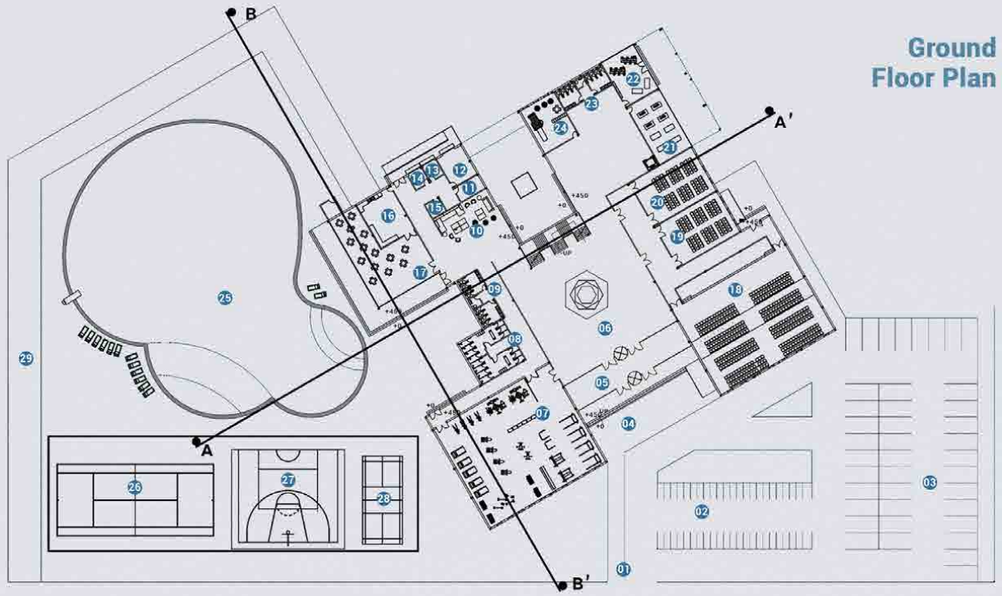
02

Type: Academic Project
Location: New Delhi, India
Climate: Hot and Dry
Site Area: 13500m^2

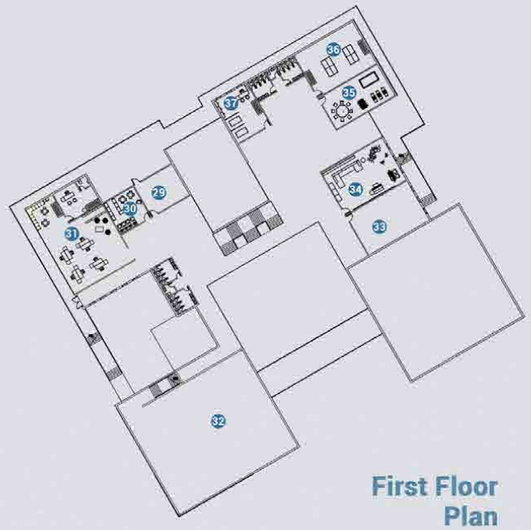
A club is generally a place for organised social interaction and relocation in the form of pursuing hobbies and reaction. These activities refresh club users and help them to combat daily work stress and unpredictable challenges of life. In today's urban life of rising working tension and interpersonal alienation, this community club helps in positive tuning of our physical and mental setups. A wellness center is also a place for encouraging physical and mental wellness of the general mass. Here, the activities target both physical and mental fitness of the users with the additional benefit of strengthening social identity and pride.



Poolside View



Ground Floor Plan



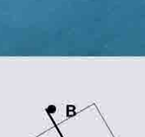
First Floor Plan

PLANS

01 Site Entry
02 Bike Parking
03 Car Parking
04 Drop Off Point
05 Locked Lobby
06 Lobby
07 Gymnasium
08 Lockers & Showers
09 Washrooms
10 Family Lounge
11 Maintenance
12 General Store
13 Electrical Room
14 Generator Room
15 Server Room
16 Kitchen
17 Cafe
18 Auditorium
19 Seminar Hall
20 Seminar Hall
21 Ladies Corner
22 Hobby Enclosures
23 Washrooms
24 Kids' Enclosure
25 Pool
26 Tennis Court
27 Basketball Court
28 Badminton Court
29 Meditation & Yoga
30 Library
31 Administration
32 Green Roof
33 Music & Dance
34 Indoor Games
35 Tennis Room
36 Medical Bay

DESIGN FEATURES

Red Brick facade wall



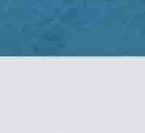
Jaali Features resembling traditional hot dry architecture

Roof Top walkways on different levels



Rooftop Garden

Green Algae walls absorb pollutants



Solar Panels to collect energy



Rooftop Walkways

VIEWS



Indoor Cafe



View of Poolside



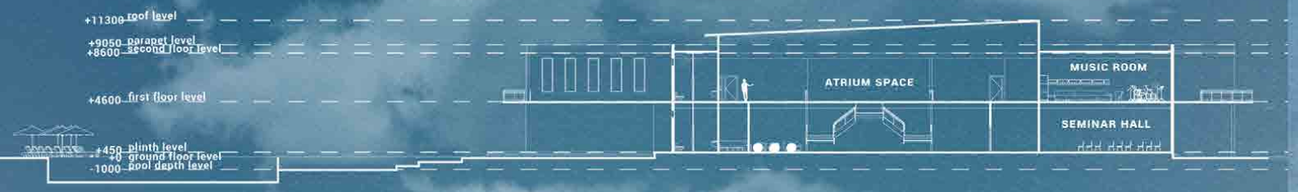
Outdoor Seating



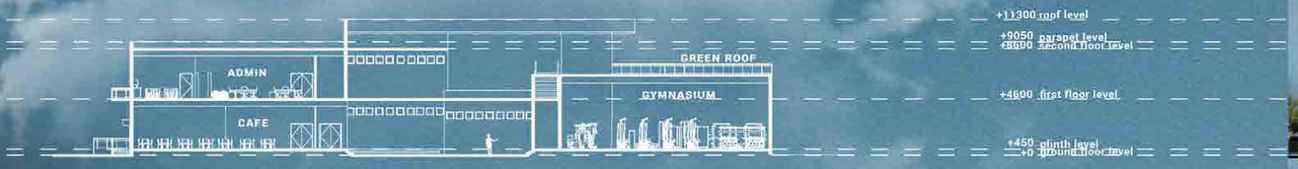
Walkways

SECTIONS

SECTION A-A'



SECTION B-B'



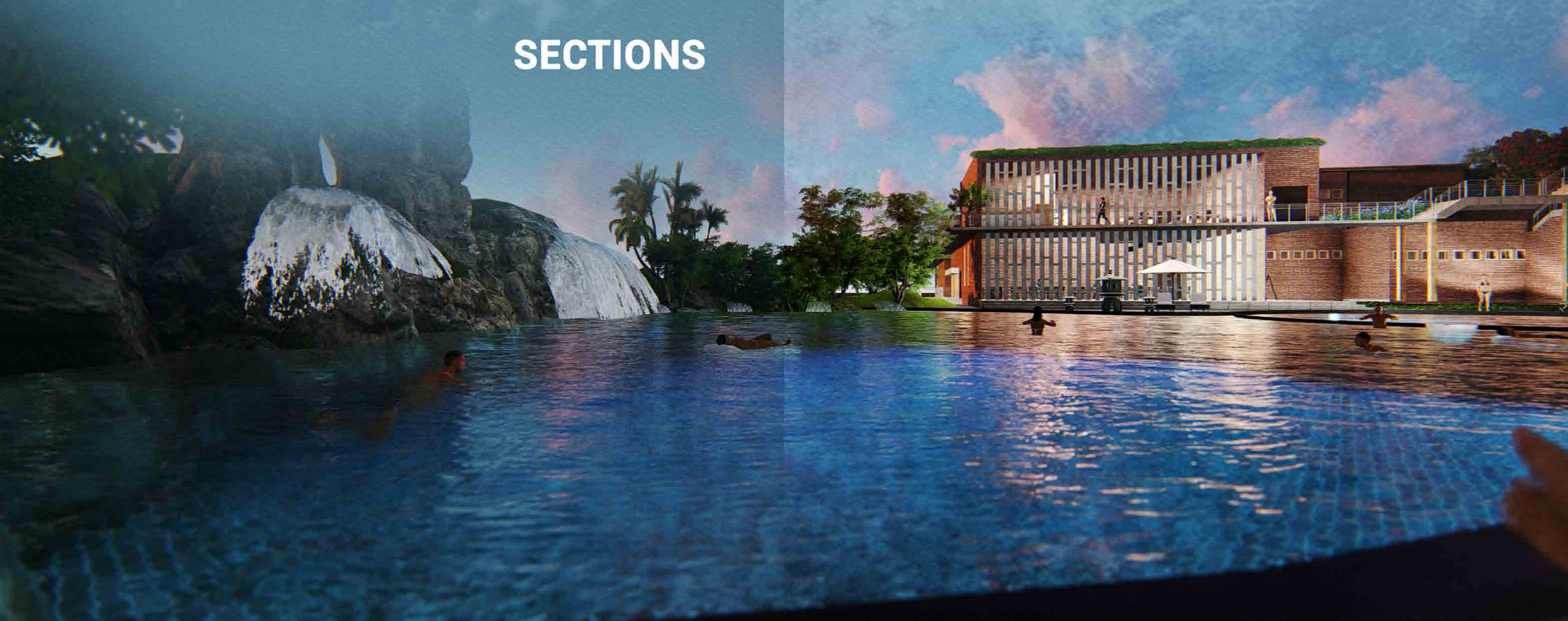
ELEVATIONS

SIDE ELEVATION



FRONT ELEVATION



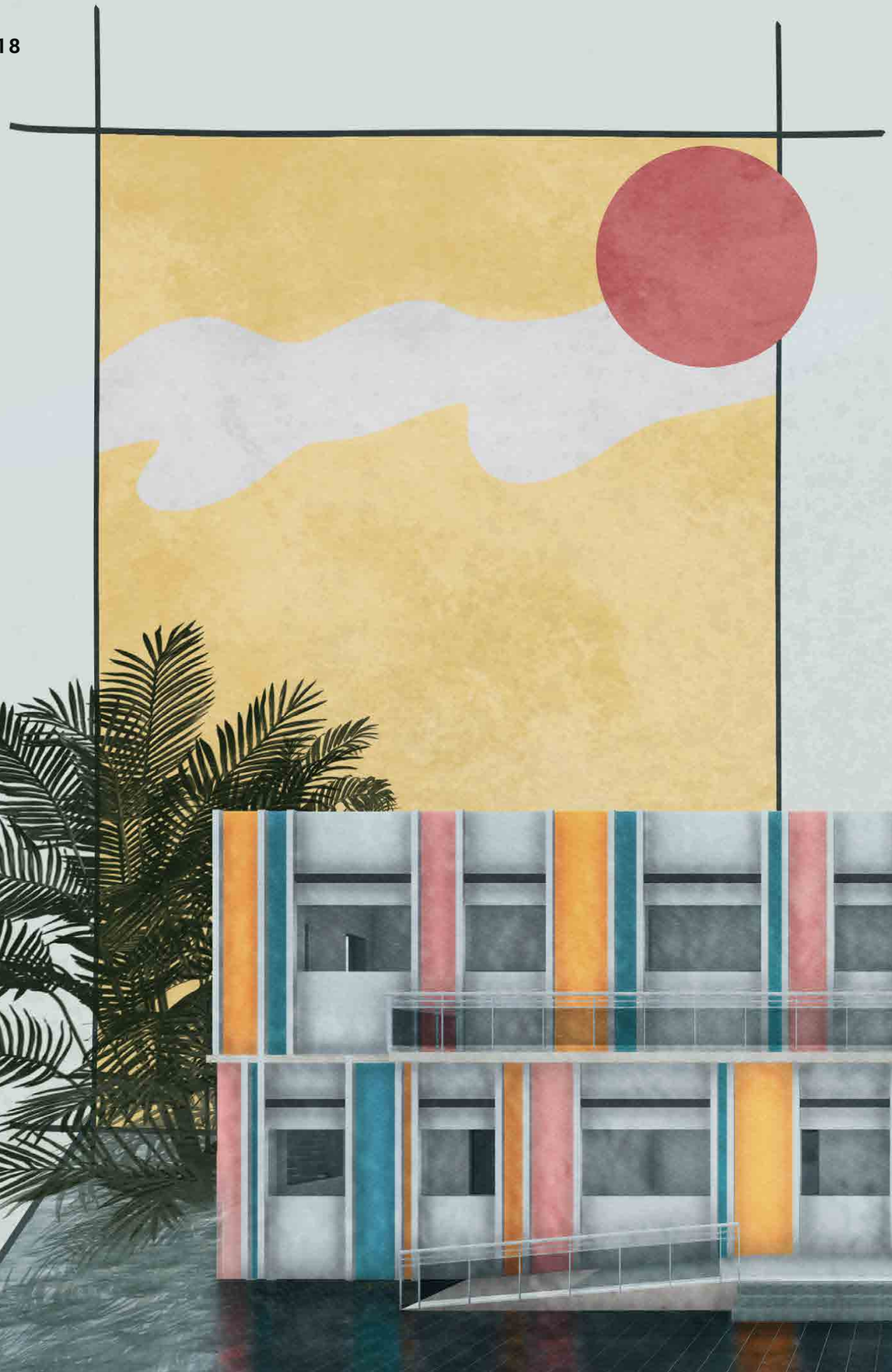


DIKSHA
PRIMARY SCHOOL

03

Type: Academic Project
Location: Mumbai, India
Climate: Hot and Humid
Site Area: 700m^2

The objective of this studio project is to design a school that caters to primary school children aged 6-10 years. The proposed site is in Mumbai, India, with a hot and humid climate. The aim of the project is to provide a comfortable, secure and inspiring area for the students, and foster a positive pedalogical environment for them.

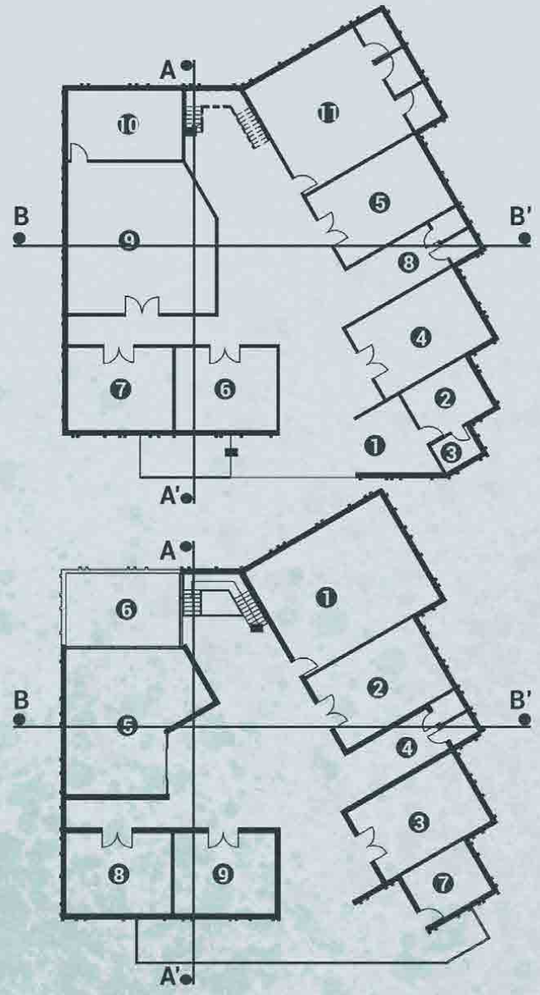


Front Elevation

PLANS

GROUND FLOOR
01 Reception
02 Principal's Office
03 Principal's Washroom
04 Classroom
05 Classroom
06 Multipurpose Room
07 Music Room
08 Washrooms
09 Dining Hall
10 Kitchen
11 Staffroom

FIRST FLOOR
01 Gymnasium
02 Classroom
03 Classroom
04 Washrooms
05 Library
06 Balcony
07 Counselling Room
08 Arts and Crafts Room
09 Dance Room

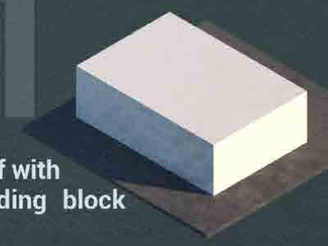




Back Elevation

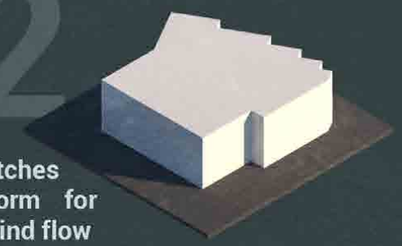
FORM DEVELOPMENT

01



Starting off with basic building block on the site

02



Adding notches to the form for efficient wind flow

03



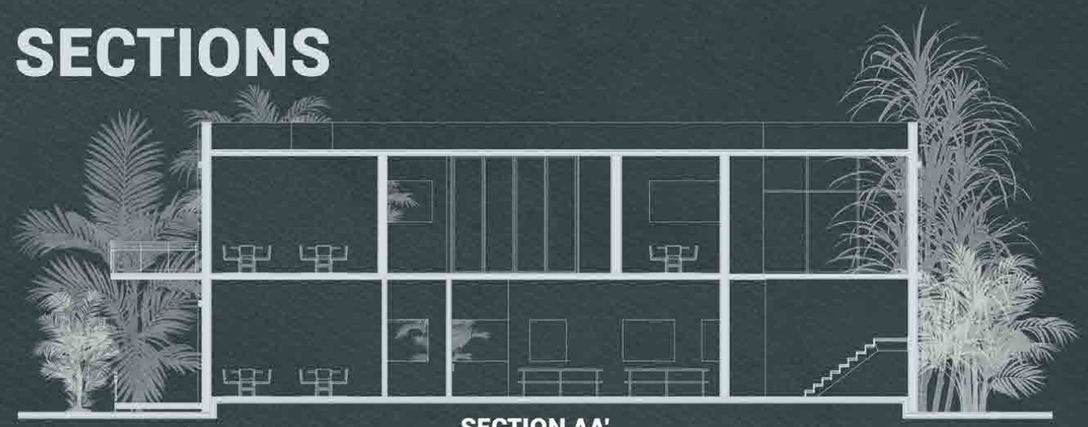
Creating an interior courtyard for airy circulation and light

04



Adding fins to the facades for shadows and design

SECTIONS



SECTION AA'



SECTION BB'

ESHIN
COLLEGE ROOM INTERIOR

04

Type: Academic Project
Location: Uttrakhand, India
Climate: Cold
Site Area: 81m²

Livable Spaces should reflect the right ambience for the desired functions. The problem statement is to design a space where you can live and interact with your roommate & best friend. The space has to be designed for living and interaction accordingly following the liking, thoughts and philosophy blended with the personal priorities of the residents.





Entrance View

PLAN

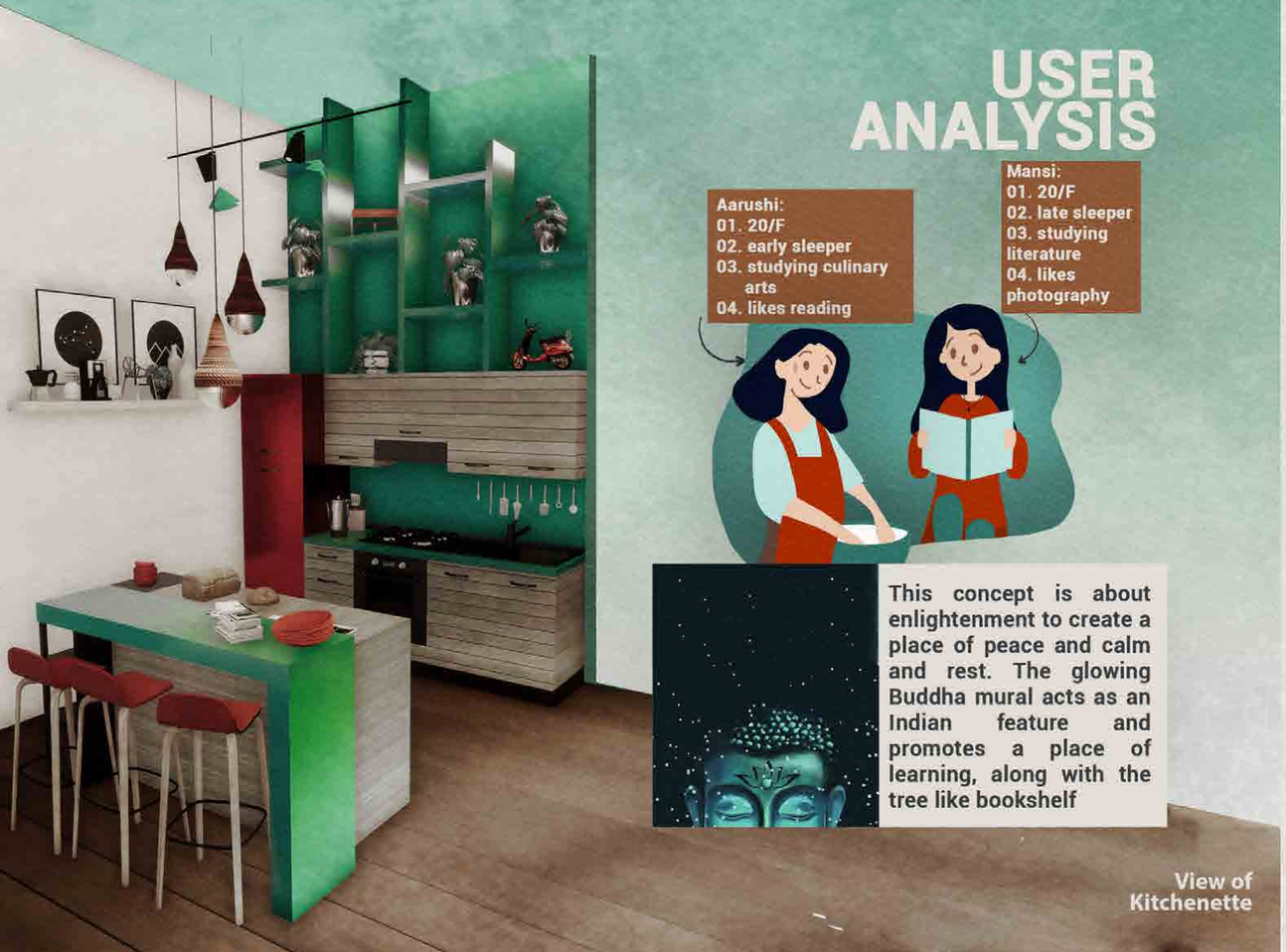
01 Entry
02 Living Room Area
03 Kichenette
04 Study
05 Bed Area
06 Study
07 Reading Nook
08 Dressing Room
09 Washer Dryer
10 Washroom
11 Balcony



Porcelain Tiles

Composite Decks

Teakwood Floors



USER ANALYSIS

Aarushi:
01. 20/F
02. early sleeper
03. studying culinary arts
04. likes reading

Mansi:
01. 20/F
02. late sleeper
03. studying literature
04. likes photography

This concept is about enlightenment to create a place of peace and calm and rest. The glowing Buddha mural acts as an Indian feature and promotes a place of learning, along with the tree like bookshelf

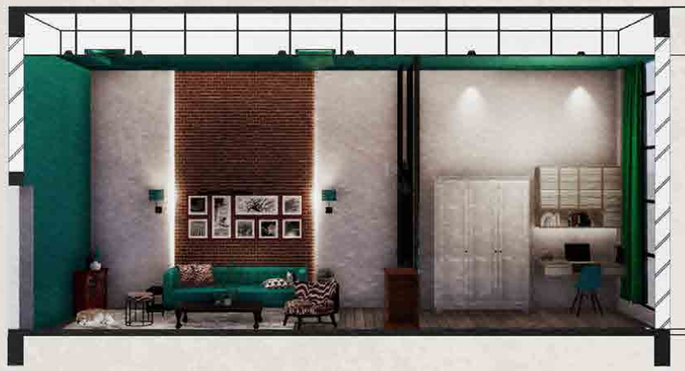
View of Kitchenette

REFLECTED CEILING PLAN



PERSPECTIVES

SECTION AA'



SECTION BB'



PERSPECTIVES



SECTION CC'



SECTION DD'

VIEWS



View from Balcony



View from Bedroom

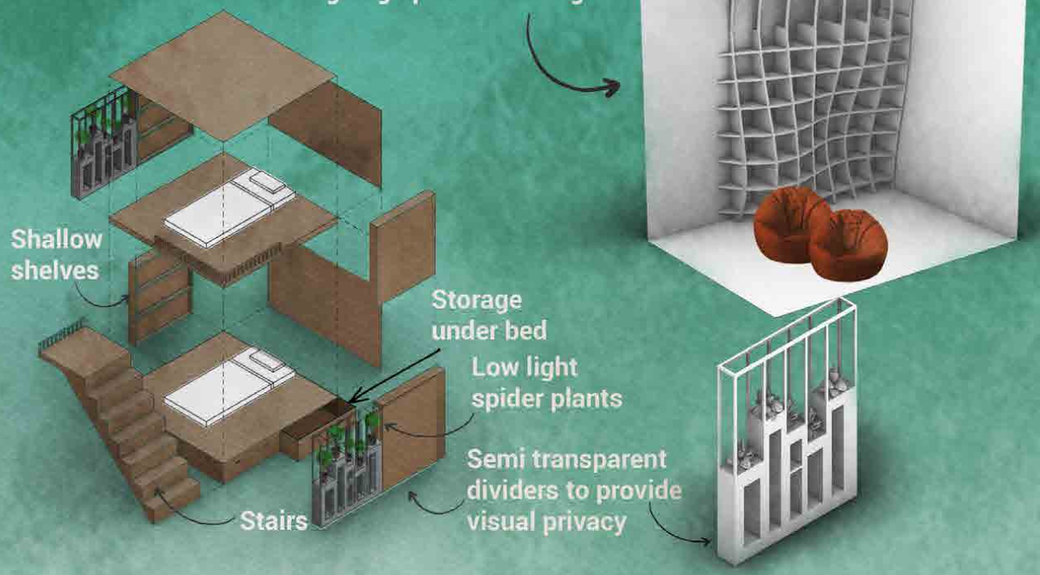


View of Living Area



View of Study

FURNITURE DETAILS



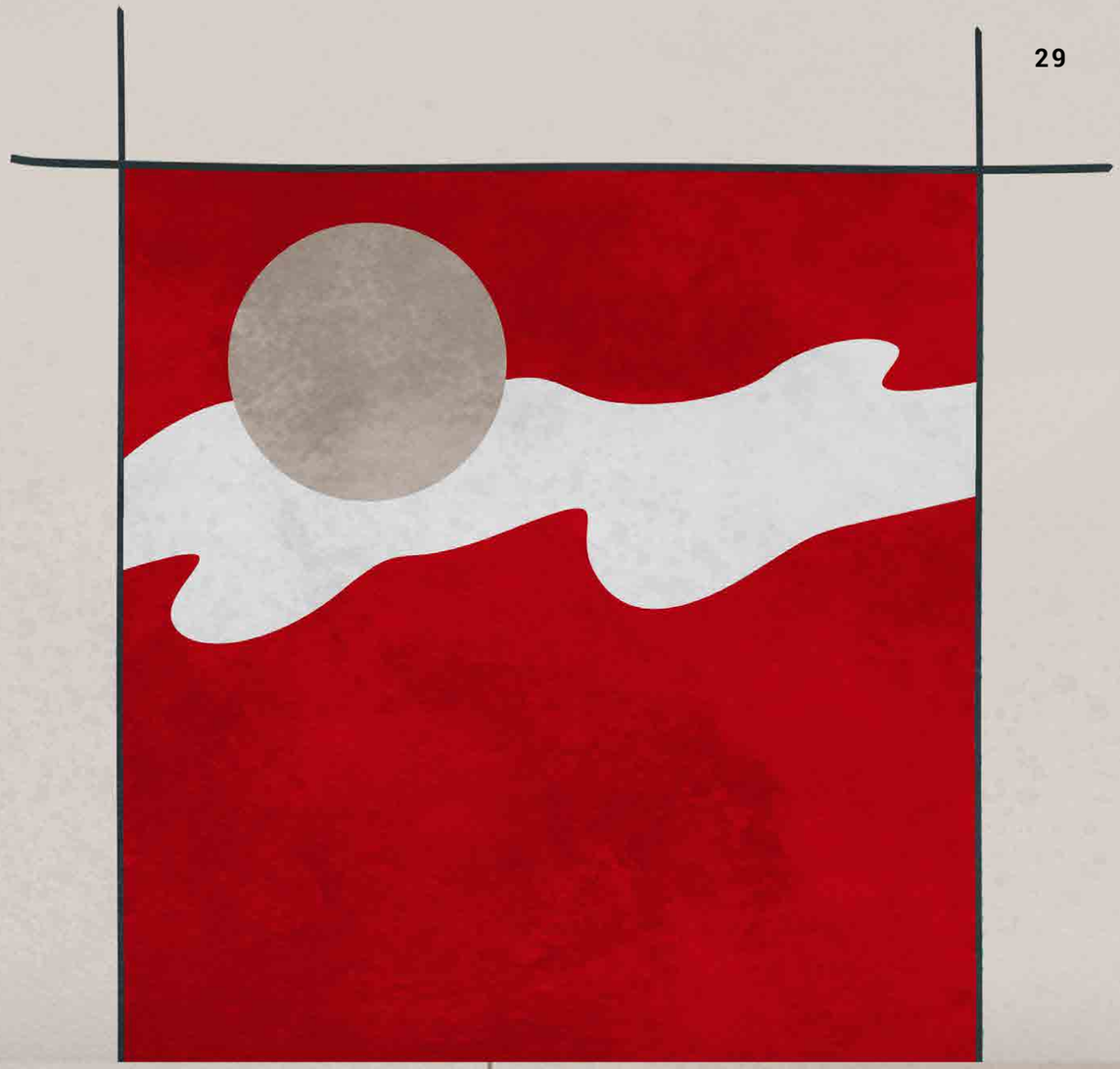


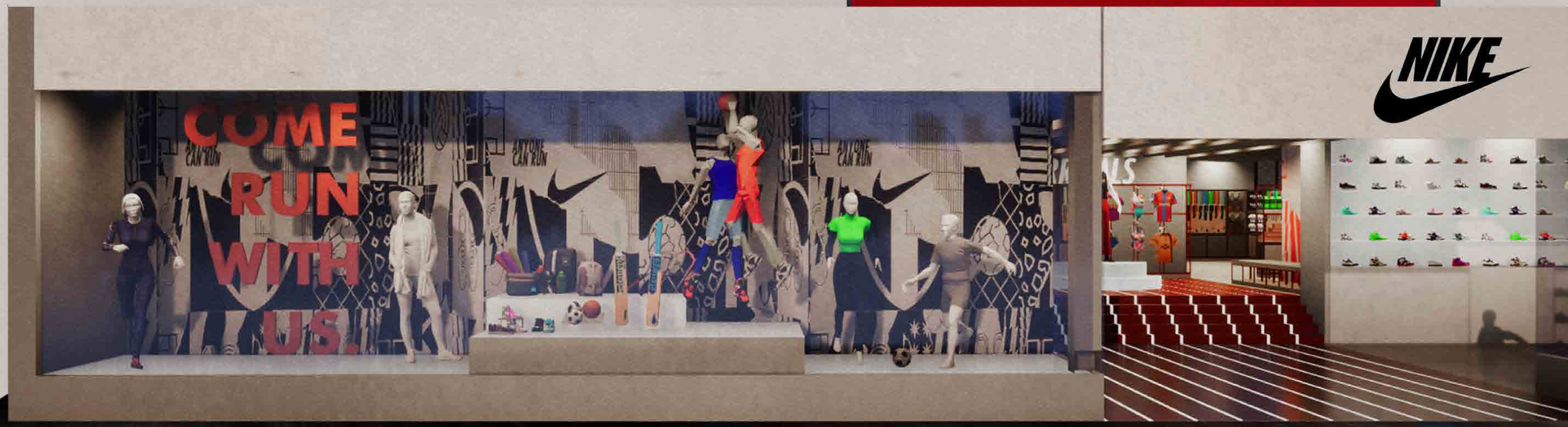
NIKE
SPORTS RETAIL SHOWROOM

05

Type: Academic Project
Location: High End Luxury Mall, India
Climate:
Site Area: 720m^2

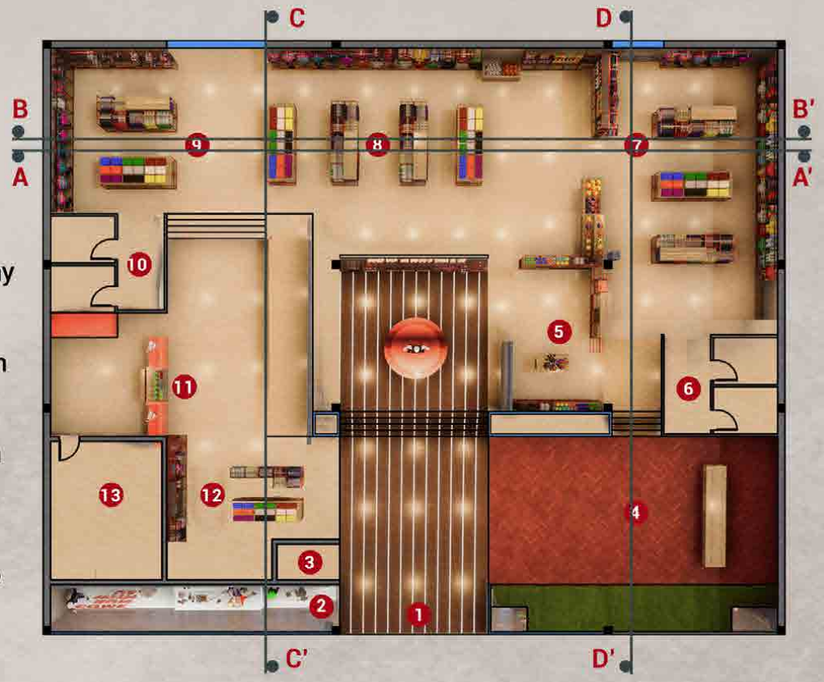
In modern times, sports and games are no longer looked upon as a mere medium of physical exercise only. Fashion, glamour and publicity have created major impacts in the world of sports towards public perception. An appropriate showroom for an International Sportswear Manufacturer is to be designed keeping the right ambience in mind to suit the target clientele of high end consumers and luxury buyers, mesmerising them by its unique character.





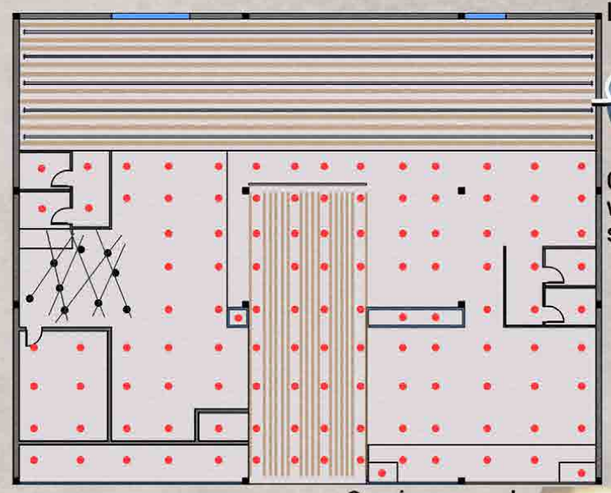
Store Front View

PLAN



01 Entry
02 Mannequin Display
03 Cloak Room
04 Shoe Section
05 Accessory Section
06 Trial Room
07 Men's Section
08 Children's Section
09 Women's Section
10 Trial Room
11 Cash Counter
12 Impulse Purchase
13 Storeroom

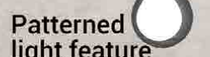
REFLECTED CEILING PLAN



Lightbulbs used as an accent feature



Patterned light feature over cashier desk



LED strip lighting



Curved wooden slat facade

Straight wooden slat ceiling facade



Semi recessed lighting laid out in a grid



Section AA'



CONCEPT

Nike's slogan- "Just Do It" signifies its brand mission and vision- a world where everyone is an athelete. The brand promotes to unite the whole world through sport to create a healthy planet, active communities and an equal playing field for all. The concept is to depict a running track like the logo

EVERYONE CAN RUN
IF YOU HAVE A BODY, YOU ARE AN ATHELETE



The entry to the store is marked with neon lines on chestnut wood flooring, depicting a racetrack, like the Nike Logo.

STORE FRONT
VIEW FROM CENTRAL ATRIUM



Sports and brand related graphical background



Enticing motivational text



Attractive internal display of mannequins



Dynamic display of sports via hanging mannequins

Path leads straight to the New Arrivals



Entrance view looks like a running track

Parallel lines invite customers into the store



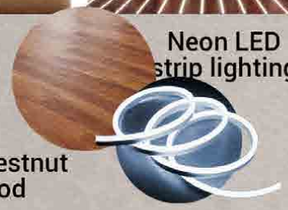
Tempered glass storefronts for protection

Customers generally turn to the right on entering, so most profitable section is placed here





Fluoroscent base for items to glow



Chestnut wood

Neon LED strip lighting

Hundreds of shoes on display to show variety



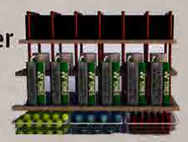
Internal shoe display can be seen as Nike's trademark product

FURNITURE DETAILS



Free standing racks for clothes in the middle of the rooms

Smaller items near cash register for impusle purchases



Painted Aluminium rods

Maple wood



Accessories can be adjusted into wall displays with different sized boxes inside aaccording to the type of product being sold



Wall display with hanging items

Tables for folded clothes

Items such as balls can be displayed in large wooden boxes



VIEWS









Section DD'



SECTIONAL PERSPECTIVE ELEVATIONS

Section BB'

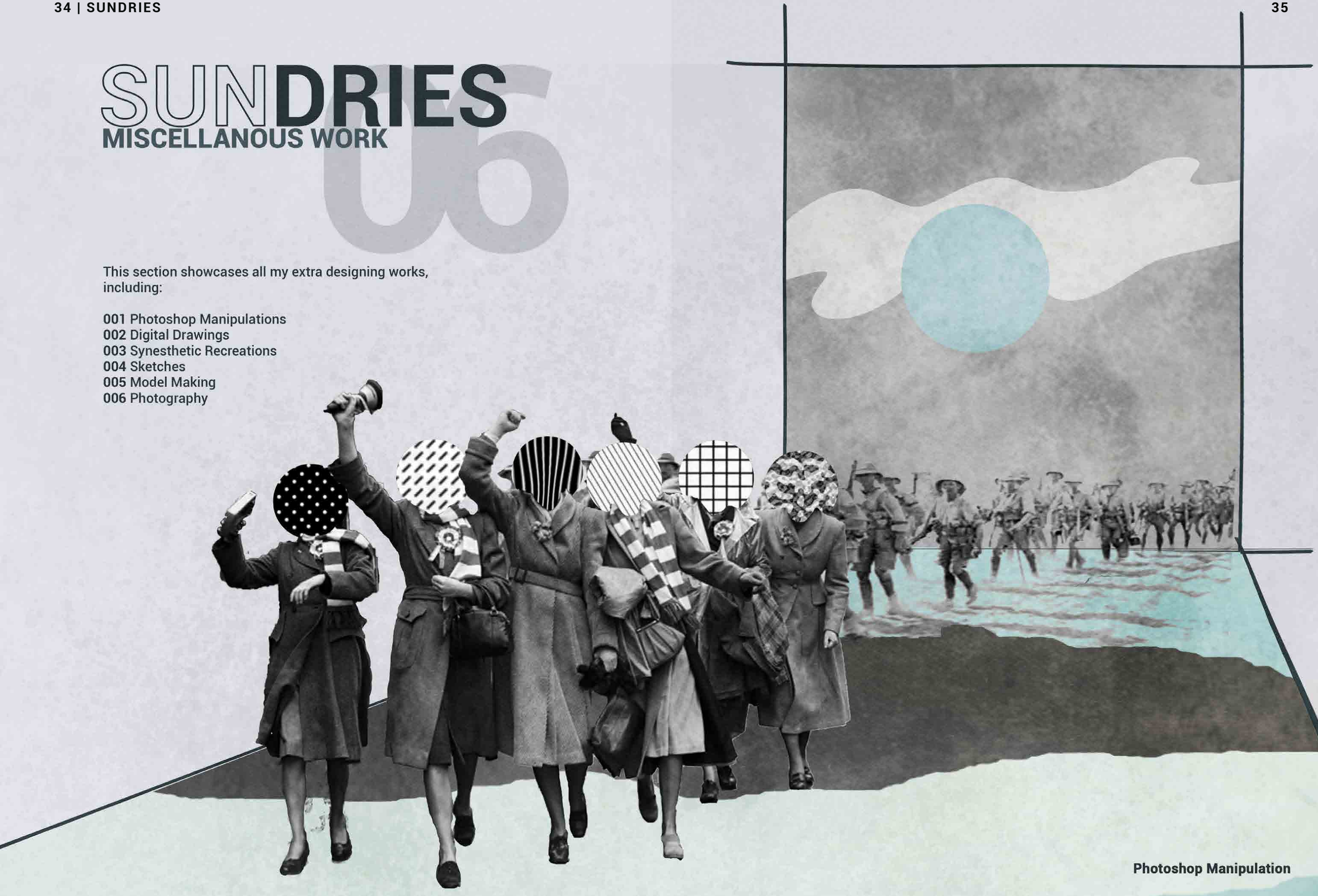


SUNDRIES
MISCELLANOUS WORK

06

This section showcases all my extra designing works, including:

001 Photoshop Manipulations
002 Digital Drawings
003 Synesthetic Recreations
004 Sketches
005 Model Making
006 Photography



Photoshop Manipulation



A City Exploded

Knotty G(ir)affe



PHOTOSHOP MANIPULATIONS

These are some of my manipulations and photoedits created on photoshop

Elle



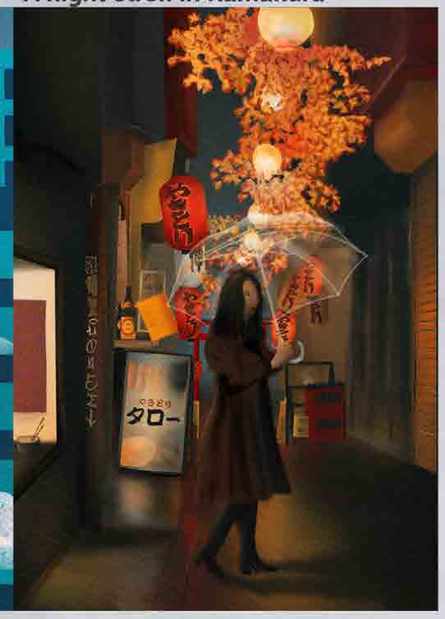
DIGITAL DRAWINGS

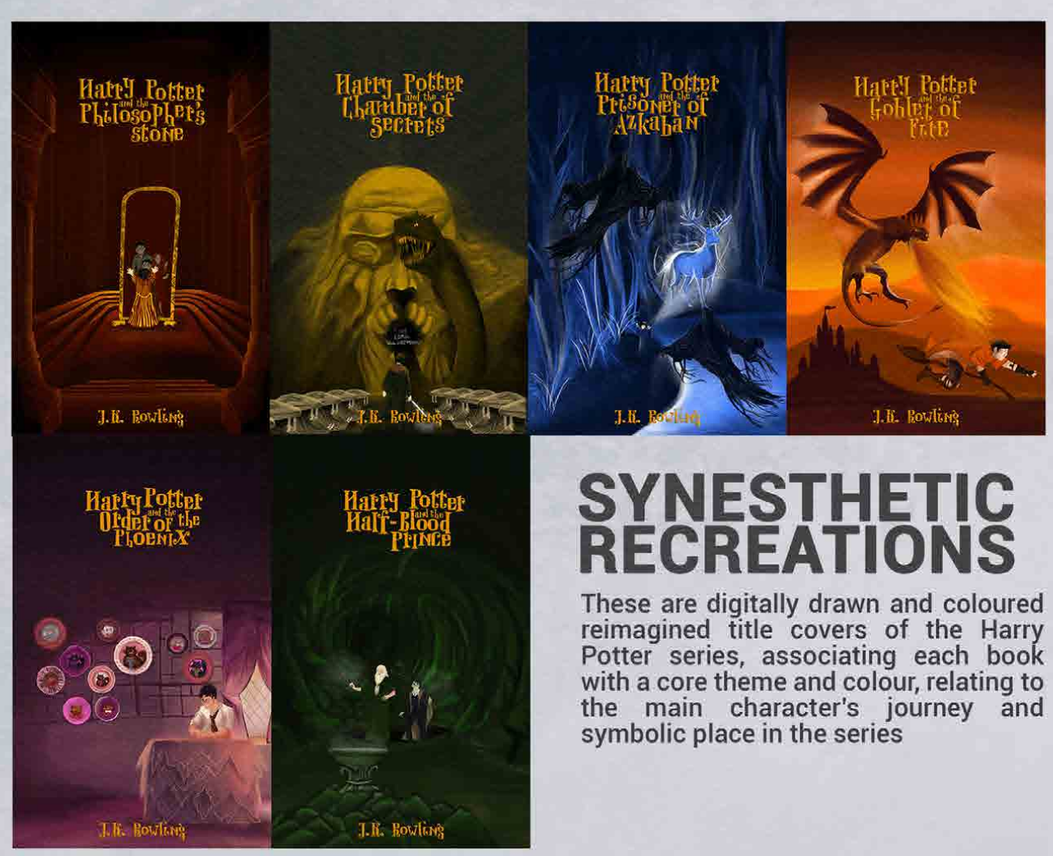
These are digitally drawn sketches on Procreate

Odette at the Bolshoi



A night stroll in Kamakura

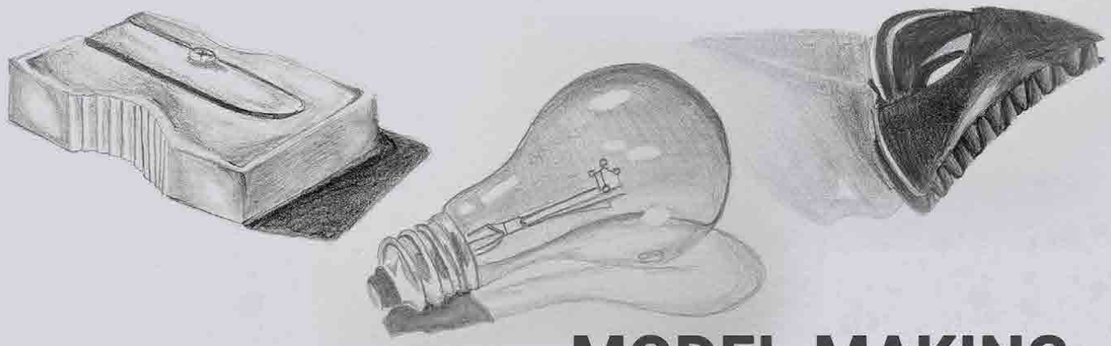




SYNESTHETIC RECREATIONS

These are digitally drawn and coloured reimagined title covers of the Harry Potter series, associating each book with a core theme and colour, relating to the main character's journey and symbolic place in the series

SKETCHES



MODEL MAKING





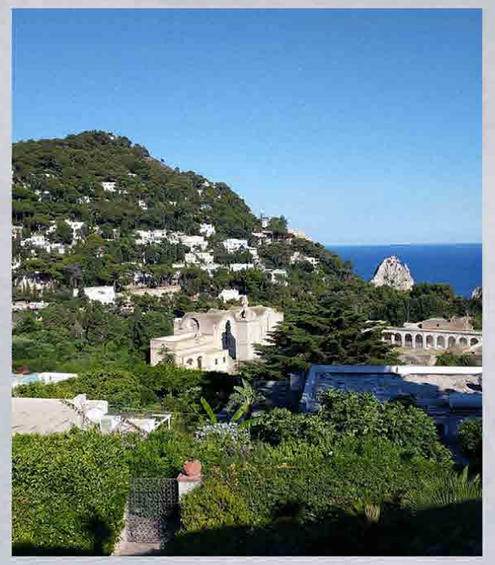








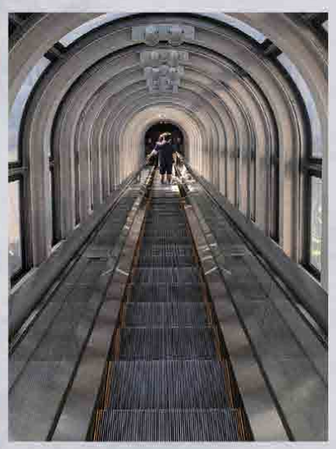
PHOTOGRAPHY














THANK
YOU
AARUSHI GUPTA