

A nighttime architectural rendering of a modern mixed-use building. The building features a glass facade with a grid pattern and a prominent vertical column on the left. A large overhanging roof supported by wooden slats spans the entrance area. In the foreground, a blue car is parked on the left, and a red car is parked further back. A white car is driving towards the viewer on a paved road. The building is surrounded by greenery and other structures, including a brick wall on the right. The sky is dark, suggesting it is nighttime.

WATER FRONT - MALL + OFFICE

ACADEMIC PROJECT

ROLE: individual design of a mixed use from design to mockups.

LIVABLE AND PRODUCTIVE AREA IN THE NATURE

The design is sought to present a comfortable workspace and commercial spaces that satisfies both nomads and owners , this aims at promoting different kinds of spaces to bring a varied experience and oppurtunities .They also create oppurtunity for people to work and enjoy the leisure acitivites.with the evolution of new form of building,it is a floor by floorspace stacked up thats designed to reflect the aspirations of the local community .

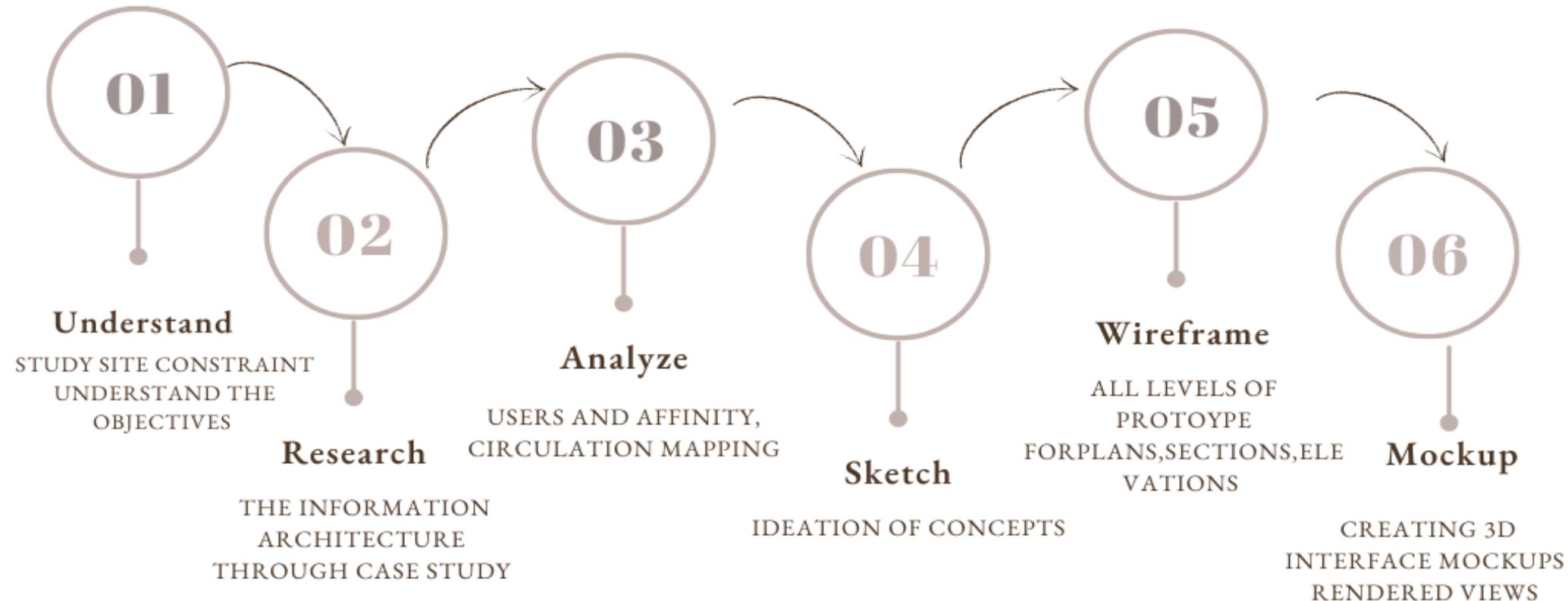


THE CHALLENGE:

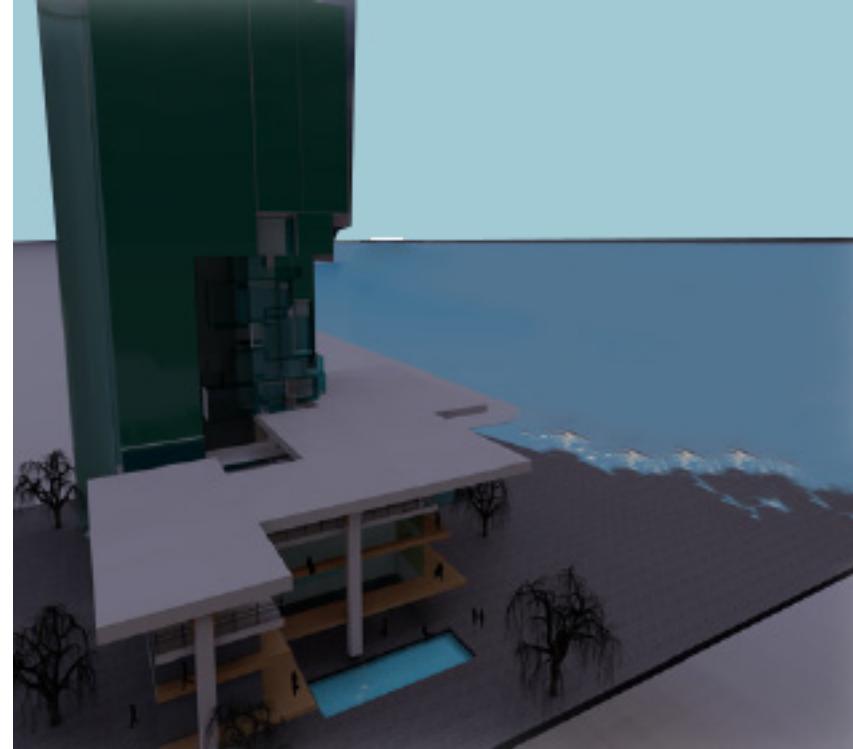
1. To exhibit and establish the configuration between the varied activities of office & commercial.
2. The design should strongly emphasize on visual perception an iconic structure that can serve as a landmark in the stretch
3. To create a mix of uses that relate to and complement each other and integrate them through site design by providing shared use of public spaces and landscape connections.
4. To integrate the structure and building services that complements the design solution.

ROADMAP

Flowchart



RESEARCH

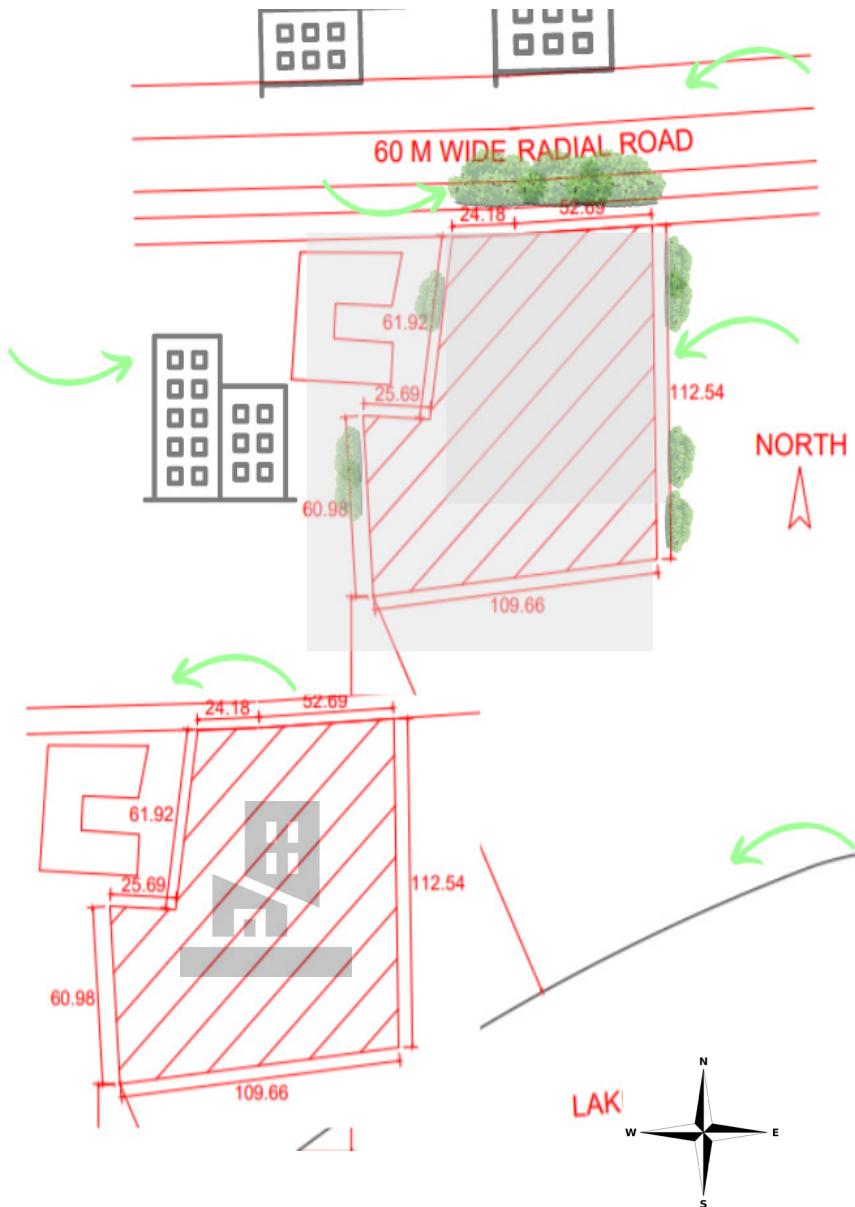


LITERATURE STUDY

Identification of the **user group**, Understanding their **behavioral pattern**, Comprehensive understanding of user's physical (**anthropometric studies**) and **physiological needs** with respect to spatial planning and design.

- Design principles which can be adopted with respect to site planning, spatial planning and built form based on various contextual considerations such as climate, day lighting, natural ventilation, design consideration for various features within the site and also its surroundings.
- Literature study should also include
 - various development control rules which are currently enforced with respect to the site.
 - various building materials which could be used for this specific design problem.

WHAT DOES THE SITE SAY?



FEATURES

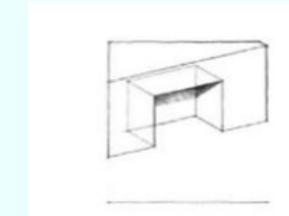
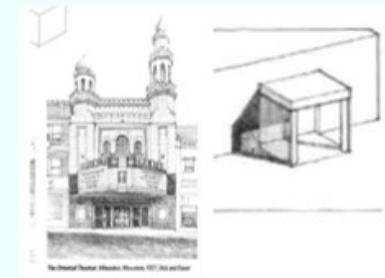
- North and west side there is high rise residential building, south side kovilambakkam lake is located.
- SE corner of the site low rise residential building is constructed
- NE corner there is a small complex located.

ADVANTAGES

- West side the high rise apartment is adjacent to our site so the shadow falls on to our site.
- The apartment on the western side acts a buffer from sunlight but also blocks potential air flow.

PAIN POINTS?

OPTIONS



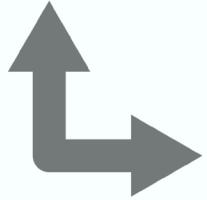
Entry to site is from the north side only . Entrance can be located either in north , north - west , north - east , west or east . Should be visual connected to the gates.

2 Different lanes are provided to provide easy access without internal traffic. Pedestrain entry at the centre with 2 vehicular entries on either side or vice versa

Projected entrance can be used , since it has got vegetation on the north side and also buffer spaces

Like security spaces and parking counters has to be accomodated . Recessed entrance can be used for the building entrance which can be used as a closed portico space for dropoff.

CONSTRAINTS TO



DESIGN FEATURES

Indoor air Quality

This is affected by

Odours: the openings should be placed away from the sewage disposal areas .

Noise levels : openings and entrances away from electrical generator rooms , side that faces the road .

Temperature : more openings on north and eastern side , and more shaded openings on the south and west .

Solar gain : less openings on the west and south side to avoid glare .

Ventilation : mechanical or natural ventilation ensured on all sides .

Furniture placement and materials : proper spatial planning and materials that does not pollute the space .

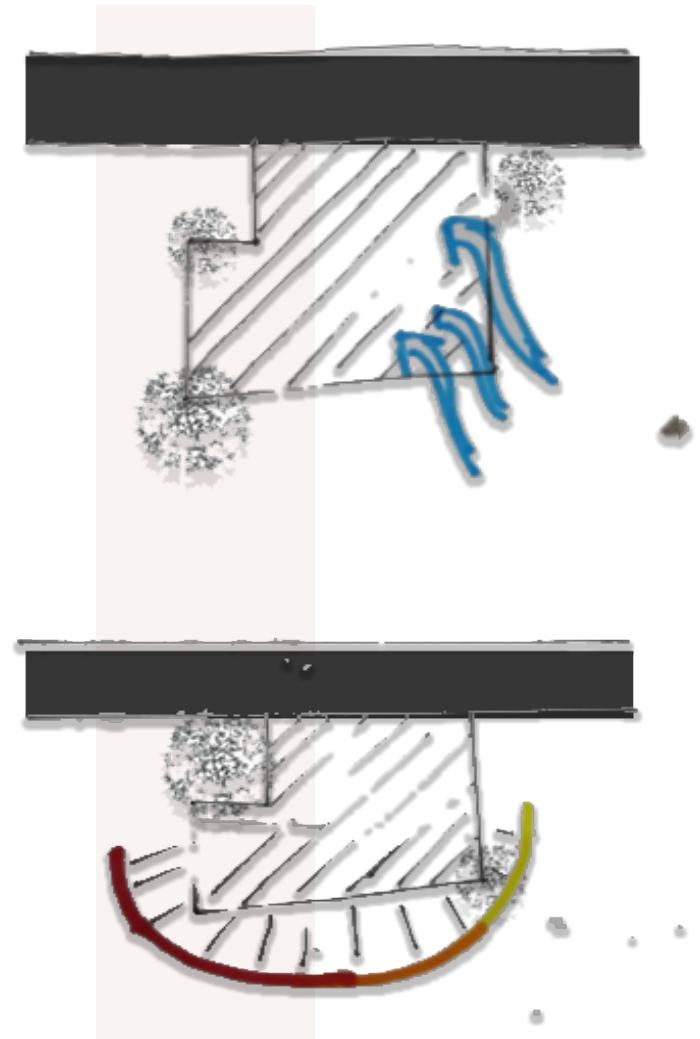
Lighting : provision of daylight ensured in all spaces and artificial light provided

ACTIVE

strategies

How to effectively use
the site
conditions available ?

**Orient the building
at angle to
utilize the wind
direction**



ON SPATIAL ARRANGEMENT

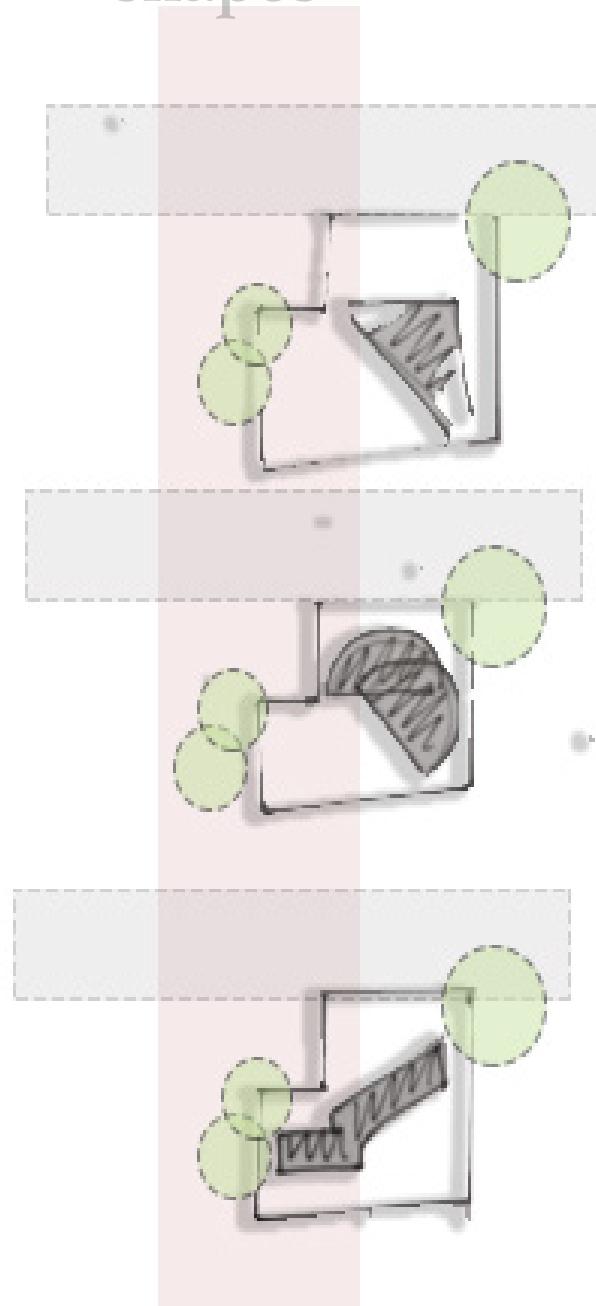
- Orientation strategies, shape, geometry, form orientation** can be facing the prevailing wind direction which is the south – east .The long side can be along the north and east to minimize solar gain .
- solar panels** can be kept along the west and south side oriented at a angle to promote more views of the lake.
- shape can be rectangular , square , circles or composite of shapes .
- form - maximize** shading by closely placed forms .
- massing accordingly to enhance natural ventilation and daylighting with central atrium and ventilation towers.
- compact planning** that ensures better lighting and ventilation.

PASSIVE

Orientation



shapes



RESEARCH-MATERIAL STUDY:

Jalli

Fencing/Compound walls

Can be used in south and west side ‘

recommendations



Stone walls for recreational spaces

Decorative spaces



Concrete hollow blocks

Soundproof

Insulation against cold and heat



Porotherm blocks

Light weight

Faster construction

Cost effective

Lighter framework



SUSTAINABLE SOLUTIONS

ANALYSIS

Strengths

HAS GOT A HISE RISE APARTMENT ON THE WEST SIDE WHICH PROTECTS FROM HARSH SUNLIGHT .

Weaknesses

LOCATED ON A MAIN ROAD HENCE PRONE TO POLLUTION .

Opportunities

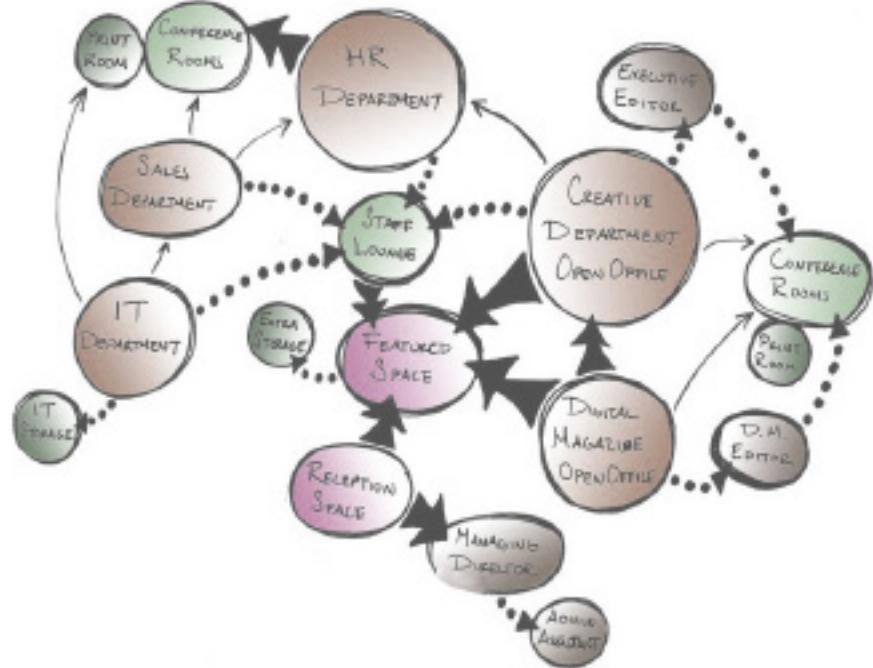
LOCATED IN A WELL DEVELOPED AREA WITH OFFICE , RESIDENCE AND INSTITUTIONAL SPACES . EASILY ACCESSIBLE.

Threats

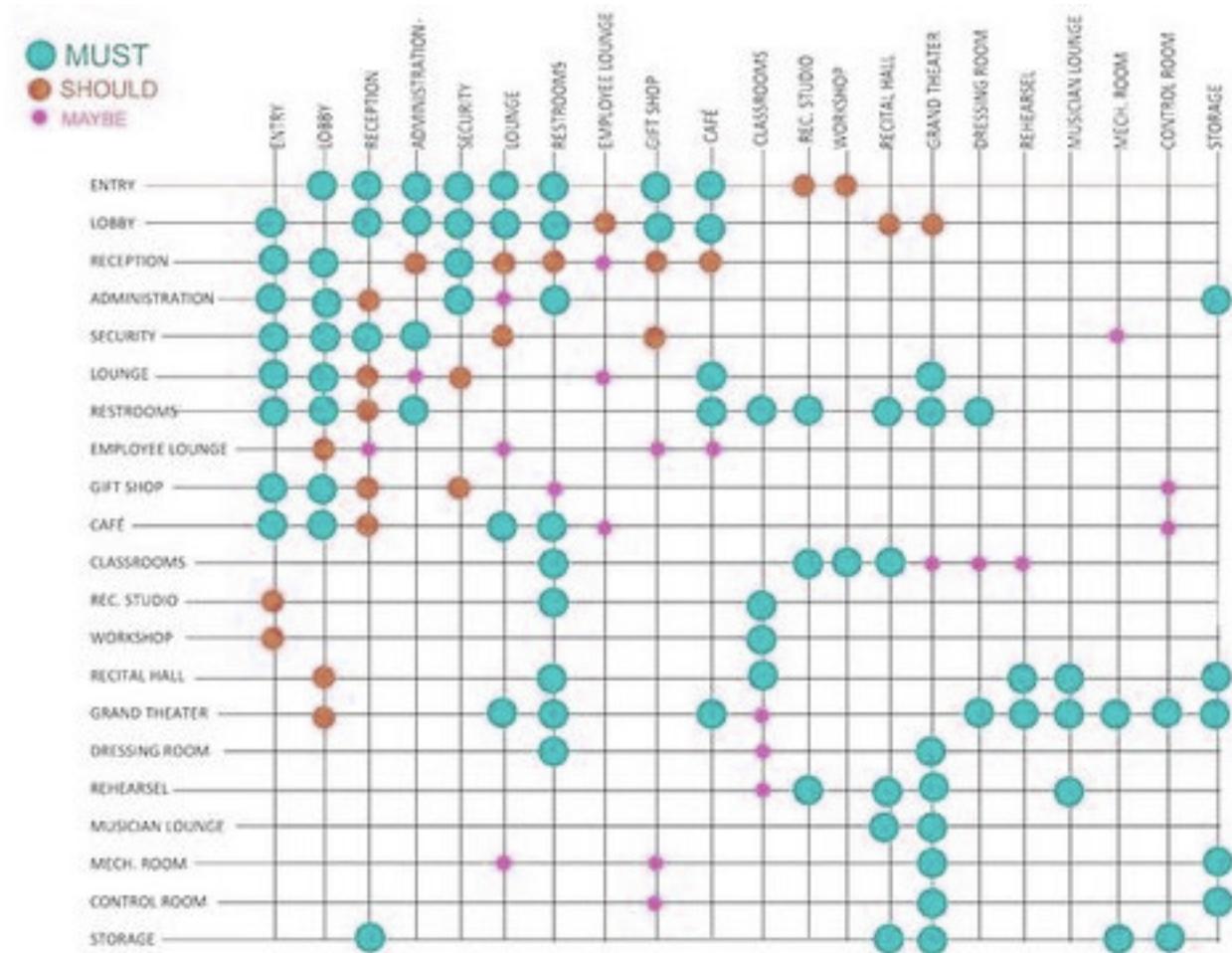
LOCATED ON MARSHY LANDS THAT MAKE THE SOIL LOOSE.

SWOT ANALYSIS

PROXIMITY CHART

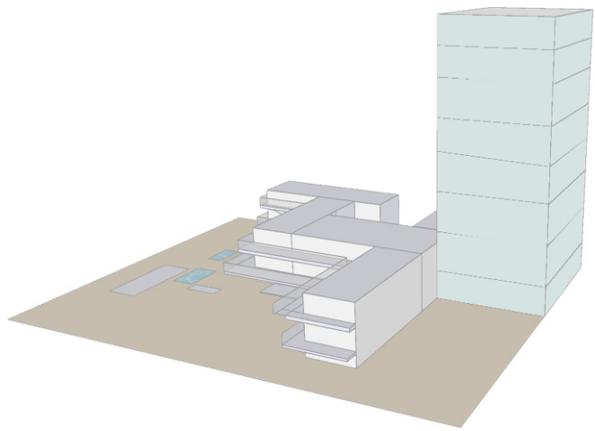


AFFINITY DIAGRAM

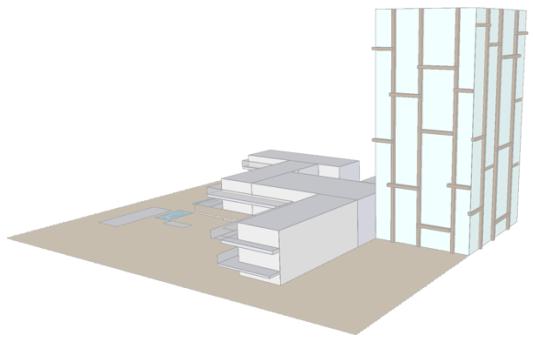


FACADE IDEATION :

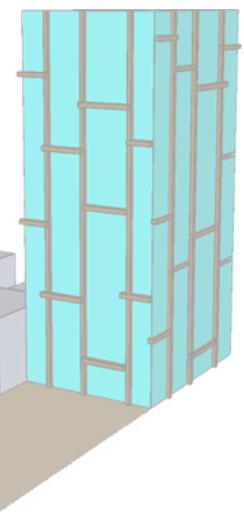
EFFECTIVE INNOVATIONS



1

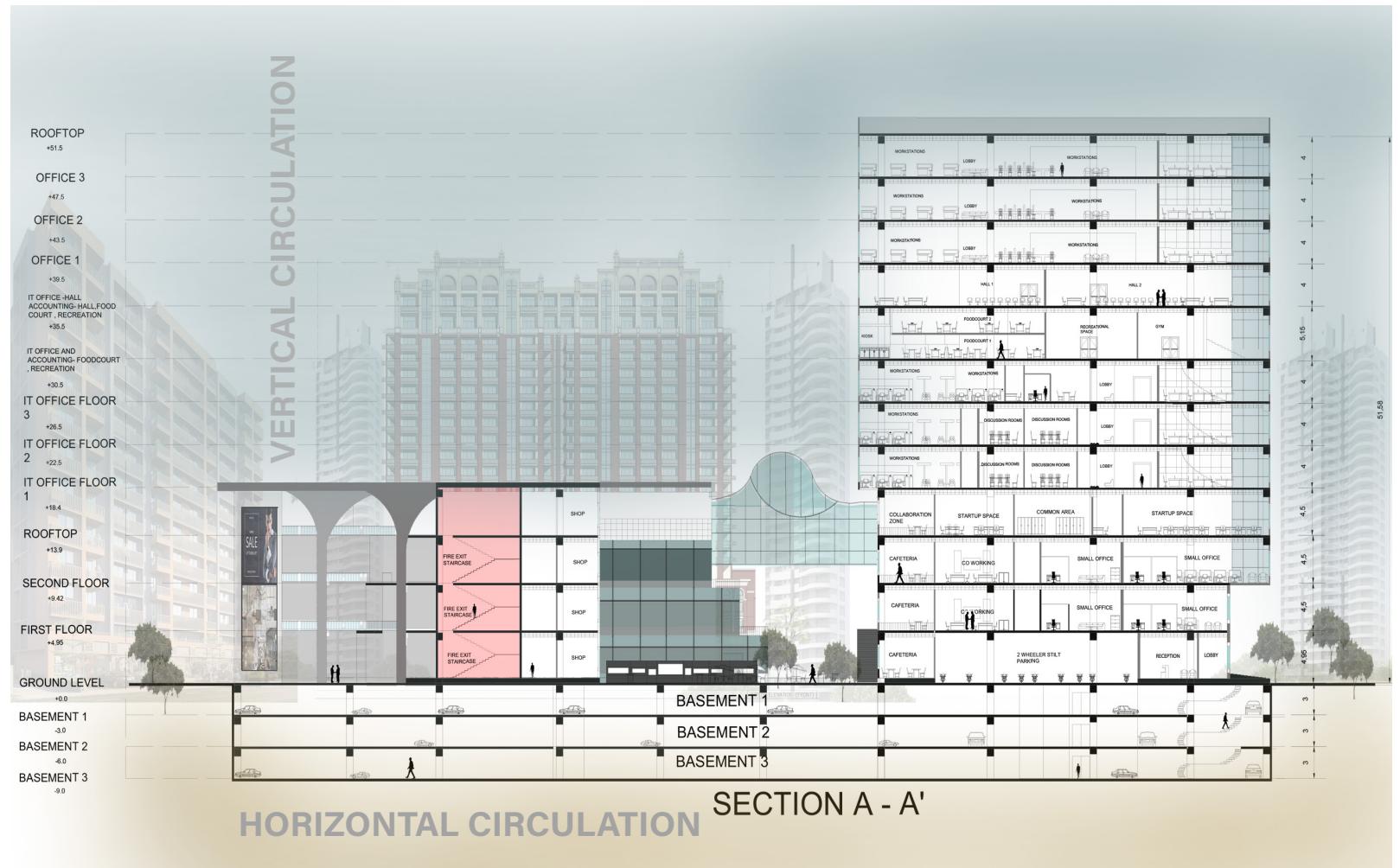


2



3

sustainable design method X facade and planning



IDEATE



BAZAAR :

Central courtyard which gives the experience of the bazaar (Food court) which is accessible by both public and office people.



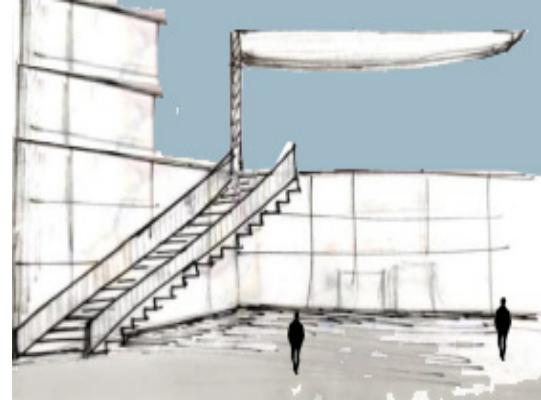
atrium space :

Office:

Which goes upto the top floor Gives a connectivity to all floors .

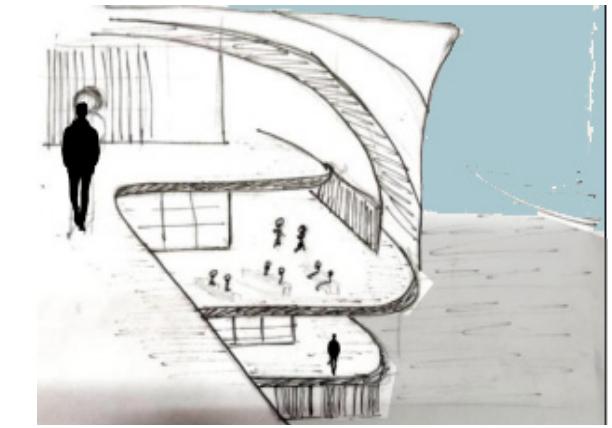
Mall :

Open to sky atrium space.Quick bites and small shopping .



OPEN STAIRCASE:

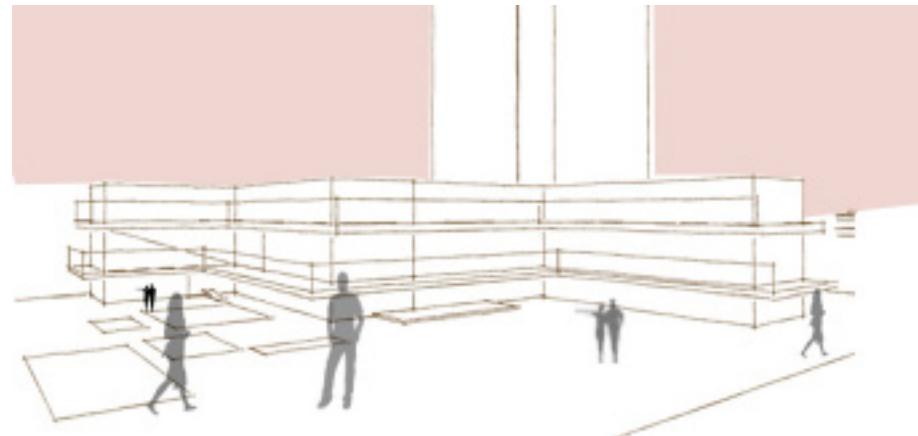
Provided from the rooftop of mall space to the floor in the Bazaar area .Promotes healthy lifestyle . Quick bites and small shopping .



DOUBLE CORRIDOR SPACES :

The corridor runs on the Exterior which faces the lake side . It is provided like a deck space which is open to outdoor is used as a place of respite . Well shaded . Quick bites and small shopping .

SOCIO ECONOMIC



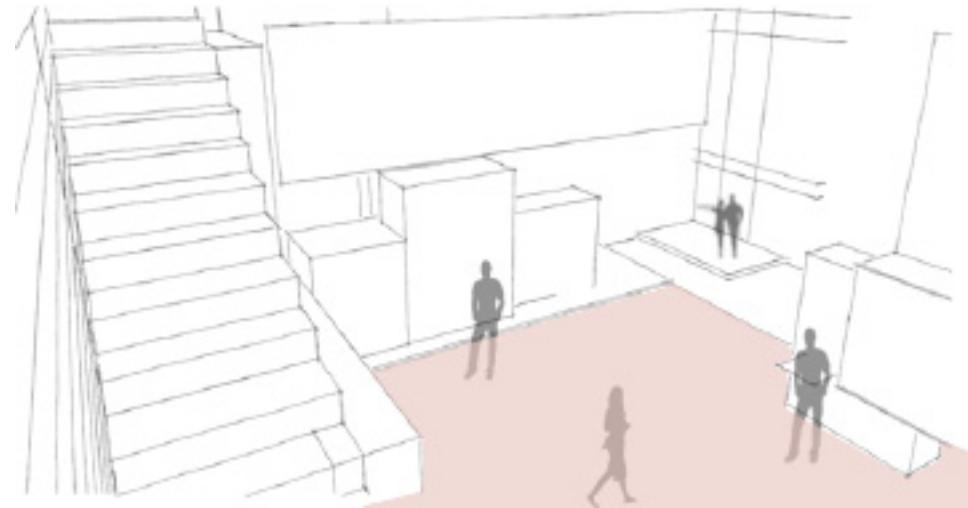
JUNCTION

This space is located on the perimeter that runs on the side that faces the river to reap the benefits of the site . This external corridor intends to experience transition of spaces. This also overlooks the social space and is well connected with the mall .

STREET BAZAAR

The first checkpoint of the retail space starts with the court-yard space which offers temporary bazaar space. This space will be overlooked from the mall .

This space offers an experience for the people who are in need of quick bites and small shopping .



EXHIBITION AND SOCIAL SPACE

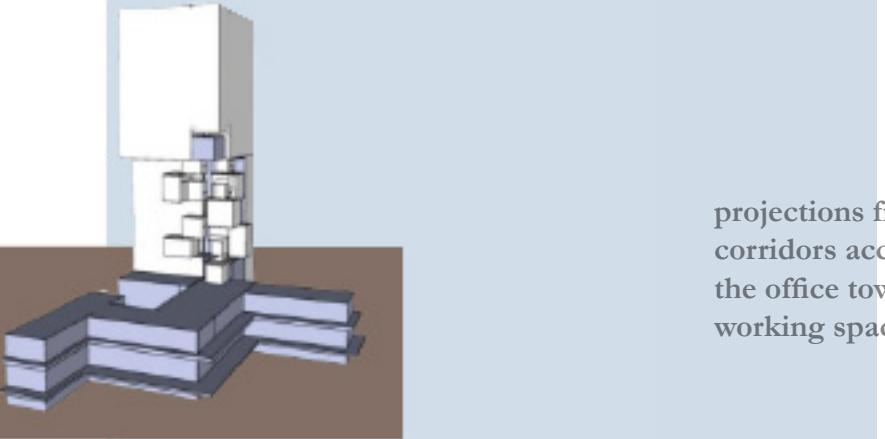
This space acts as an open space which can be used for exhibitions and also a place for chilling that also breaks from the shopping experience and gives a feel only for relaxing



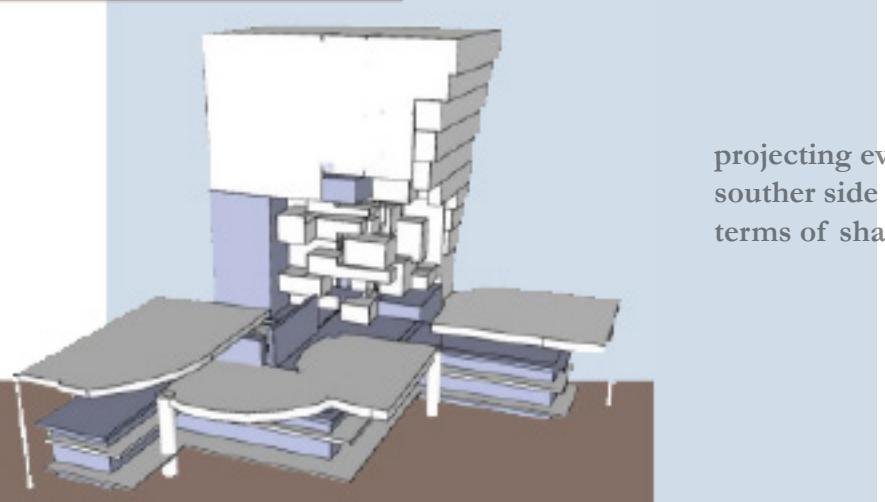
Form generation



Two blocks are separated according to their function and placed next to each other with a courtyard in the middle (atrium space)



projections from the mall space acts as corridors access. Modules projecting from the office tower which acts as semi-outdoor working space.



projecting every floor outwards on the souther side making it more efficient in terms of shading.

- Courtyard acts as a source of Ventilation and helps in cross Ventilation .
- Narrow shaped buildings more Ventilation .
- Projections in south side acts as Self shading units .
- Outdoor unit projections placed Such that it receives prevailing winds from South east
- Glazed atrium on the north side .
- Plain façade on north because it Receives less sunlight

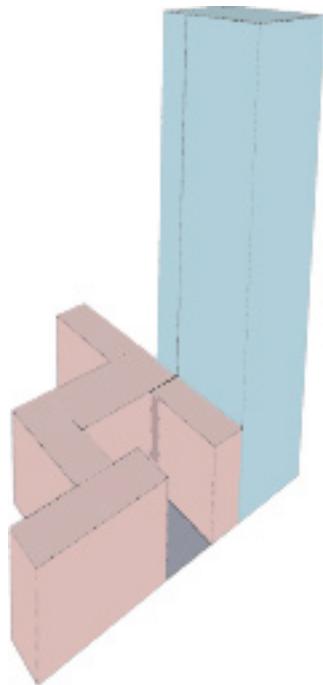


PROJECTIONS THAT RUNS FROM THE GROUND TILL THE ROOFTOP THAT HOLDS THE PROJECTING OUTER CORRIDORS

JOURNEY MAPPING OF THE DESIGN

OFFICE

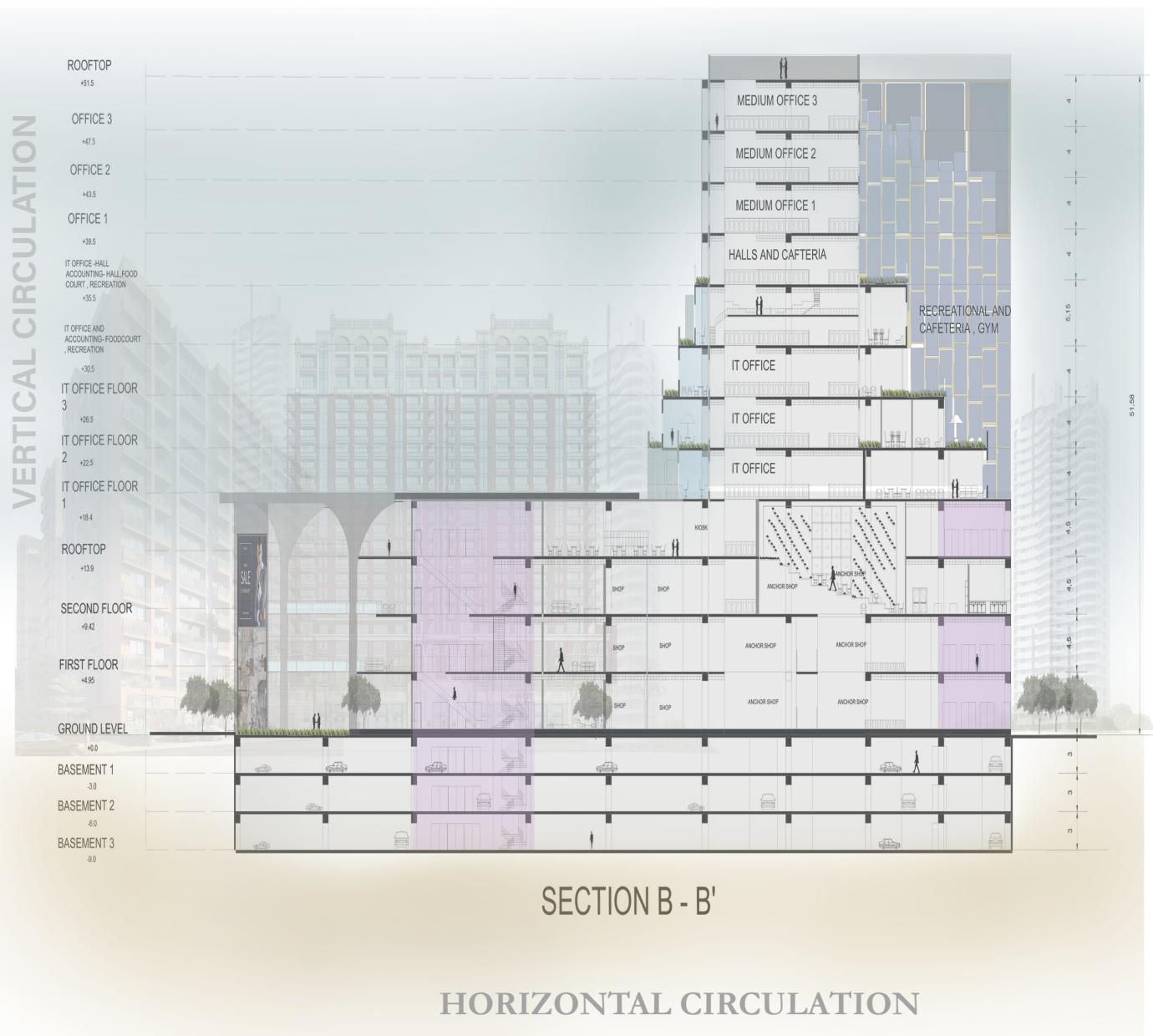
GROUND FLOOR - LOBBY
 1 & 2 FLOOR - SMALL OFFICES AND COWORKING SPACES
 3 FLOOR - STARTUP OFFICES AND COLLABORATION ZONE
 4 TO 8 FLOOR - IT INDUSTRY
 4 AND 5 FLOOR - WORKSTATIONS
 6 FLOOR- WORKSTATIONS AND CEO OFFICE
 7 FLOOR- RECREATIONAL AND INFORMAL WORKING AREAS
 8- CAFETERIA AND INFORMAL WORKING AREAS
 9 TO 11 FLOOR - ONE FLOOR OFFICES



MALL

GROUND FLOOR - SMALL SIZED , MEDIUM SIZED, ANCHOR SHOPS
 1 AND 2 FLOOR - MEDIUM SIZED SHOPS ,

building program



FLEXIBILITY

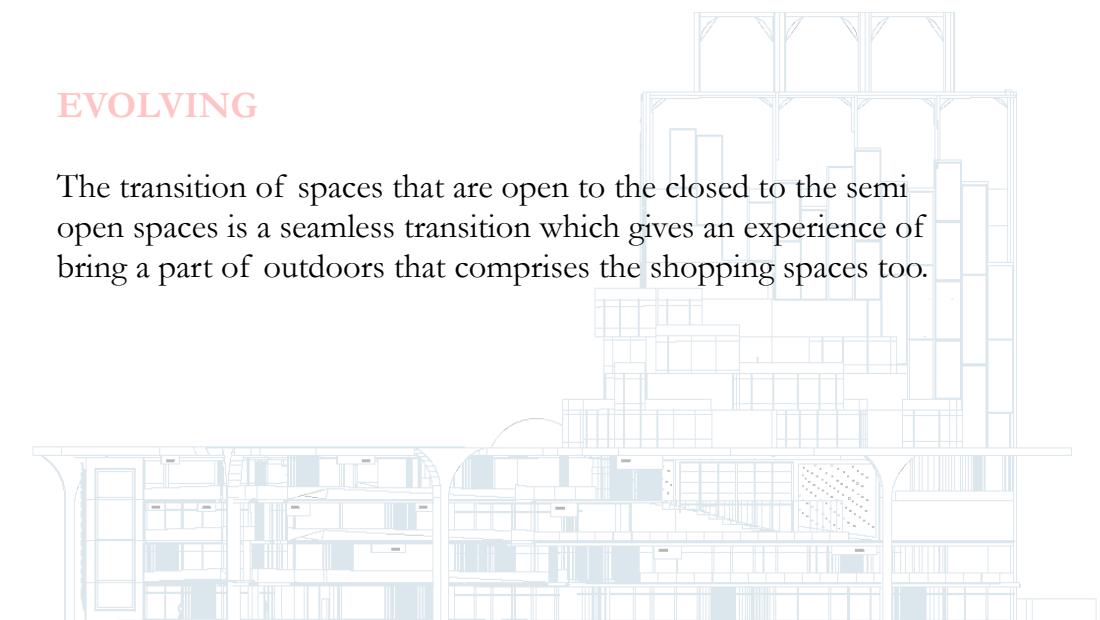
Open spaces on the site for temporary shops and food stalls , exhibition spaces . Open working areas for Collaboration and coworking .Flexible timimg based space office provided .

CONNECTIVITY

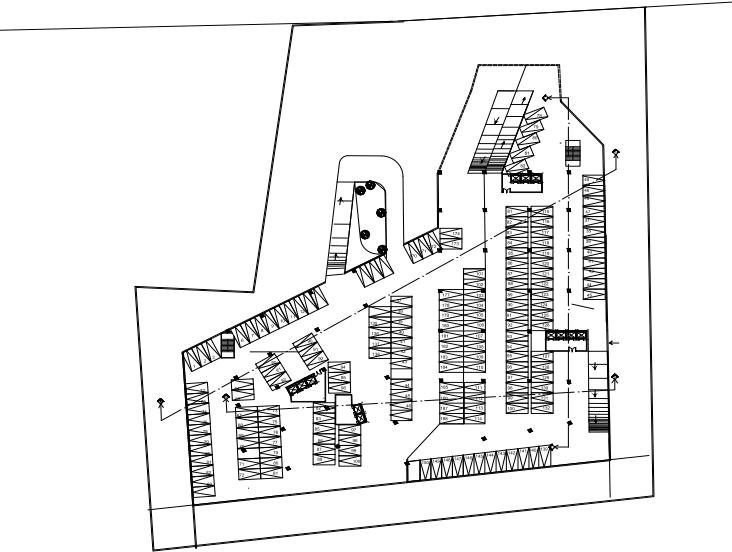
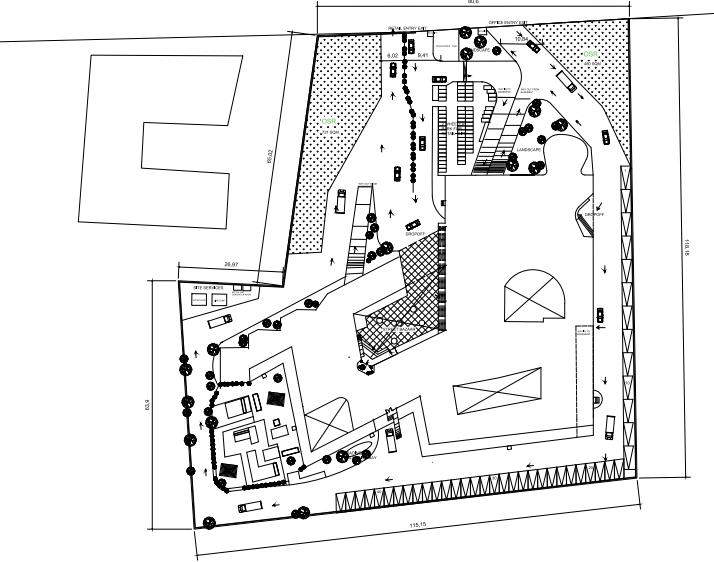
The site is vacant at many places to promote more green and social spaces . There is a connectivity to the nature thriugh semi open corridor spaces that faces the river side on the south . Connectivity from the office to the malls food court and street bazars for easy access.Open atriums giveds a united space with the nature .

EVOLVING

The transition of spaces that are open to the closed to the semi open spaces is a seamless transition which gives an experience of bring a part of outdoors that comprises the shopping spaces too.



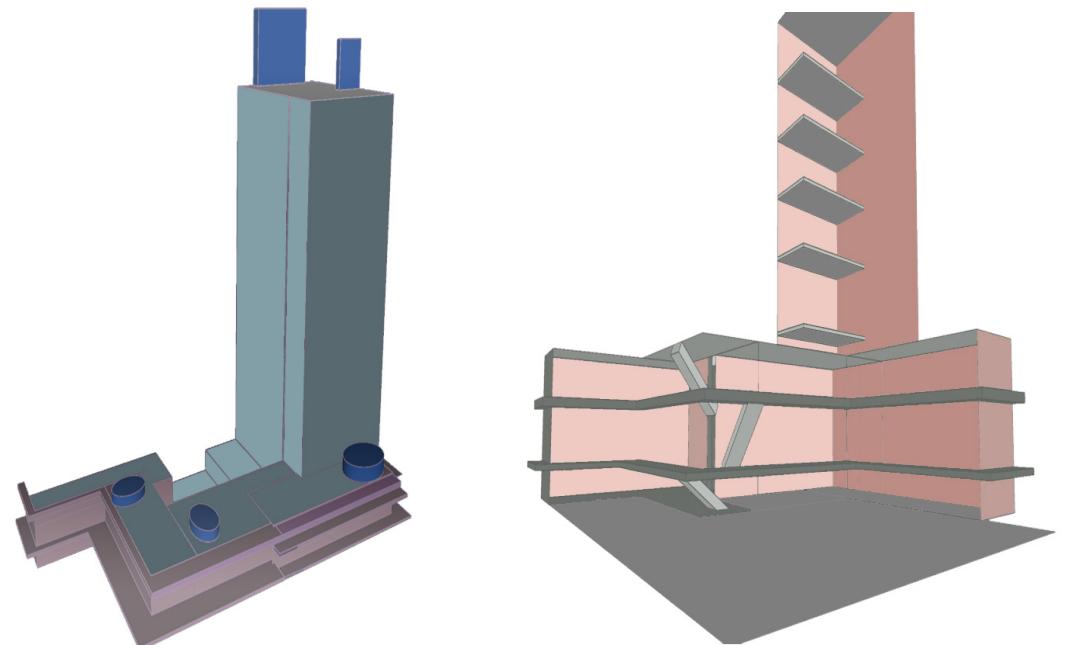
WIRE FRAMES



The design is sought to present a comfortable workspace and commercial spaces that satisfies both nomads and owners , that aims at promoting different kinds of spaces to bring a varied experience and oppurtunities .They also create oppurtunity for people to work and enjoy the leisure acitivities . with the evolution of new form of building , it is a floor by floor space stacked up tht's designed to reflect the aspirations of the local community .



BUILDING FORM MAXIMIZES
THE VIEW TO THE LAKE



CORE PLACEMENTS- elevator, escalator, staircase

Resuscitate the notion of 'work'

Envision a model for office spaces that breaks the conventional system of corporate blocks, asking participants to create a space that enhances productivity, flattens work hierarchies, and evokes an atmosphere inducing creative thought and collaborations among people.

3D interfaces



INTERIOR PERSPECTIVE

It was planned based on more of an open plan types that adds advantage of open ventilation and more sunlight.

The open spatial double corridor plan helps in bringing a flow to the transition of spaces in the interior and gives more space for relaxation and to enjoy the advantage of the site .

EXTERIOR PERSPECTIVE

Due to the combination of glasses used in the fully glazed facade , the aesthetics are visually appealing reflecting the buildings surroundings and dynamically changing its appearance depending the viewing angle , day tiem and weather .

Running corridors on the outside which acts as semiopen space gives contrast to the solidity created in the office building.

Fully glazed mall spaces to increase the promotion of the commercial shops.



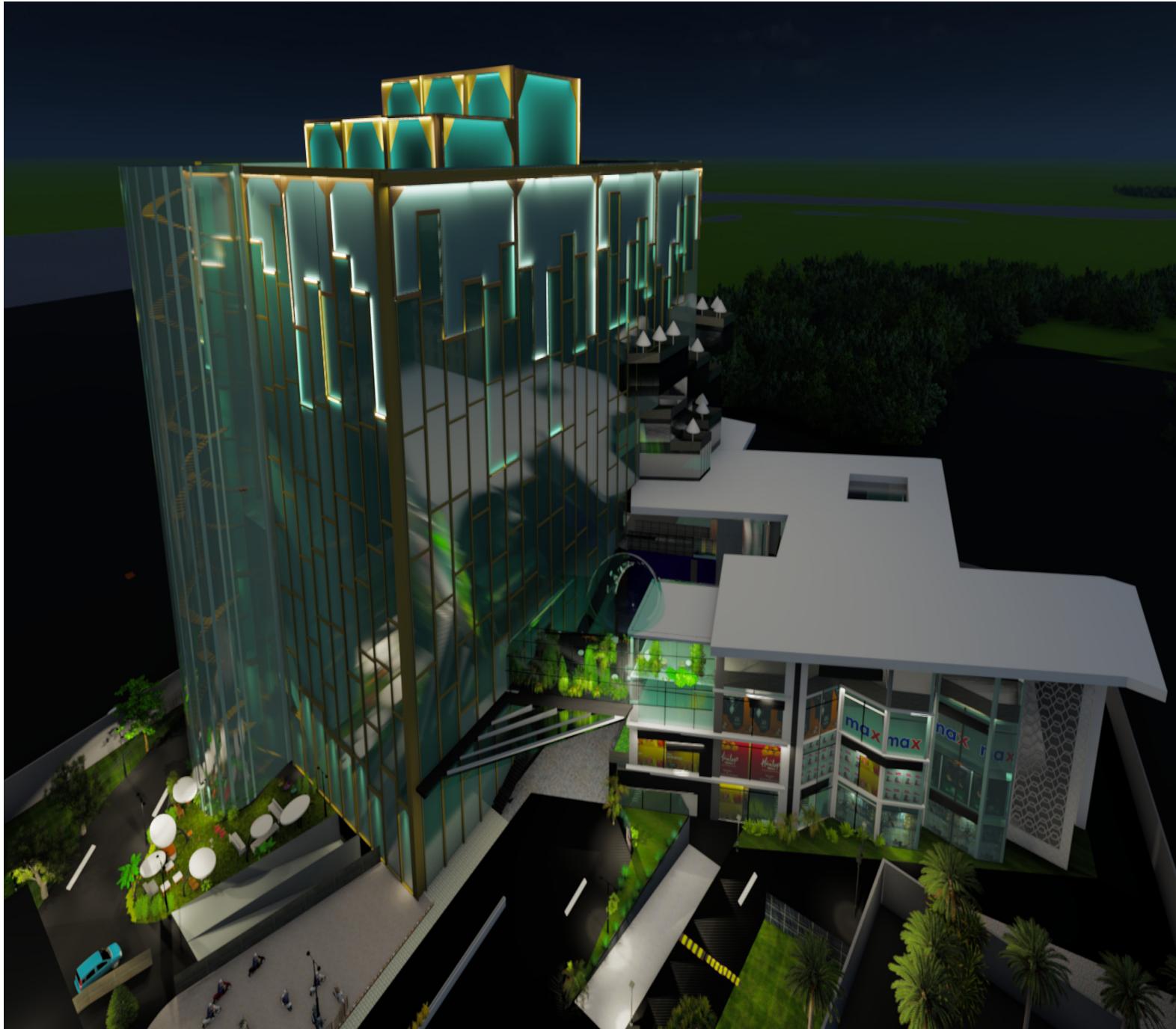
Sustainability

Unlike the conventional office block, which spends a huge annual expenditure on temperature control and structural maintenance, the design should be responsive and adaptive to the local climate and structural systems as far as possible.

Make the most efficient use of land while providing a higher quality lifestyle for those who live or work in the developments.



Reinvent The ‘Office’ Space



The idea of the conventional office is reinvented to be a dynamic, versatile and lively space fostering innovation and creativity in users.

While serving its purpose of being a work environment, the design needs to be evocative enough to radicalize how office buildings are looked at; and serve as a model that redefines the present day functioning of the corporate ‘workspace.’

Addressing the aspirations of the client.

Client plays an important role in the vision for project. Their aspirations regarding the form of the building, symbolic nature of built form and need for other value addition plays an important role in shaping the design goals for designers.

The needs of the client should play an important role in the whole design process.



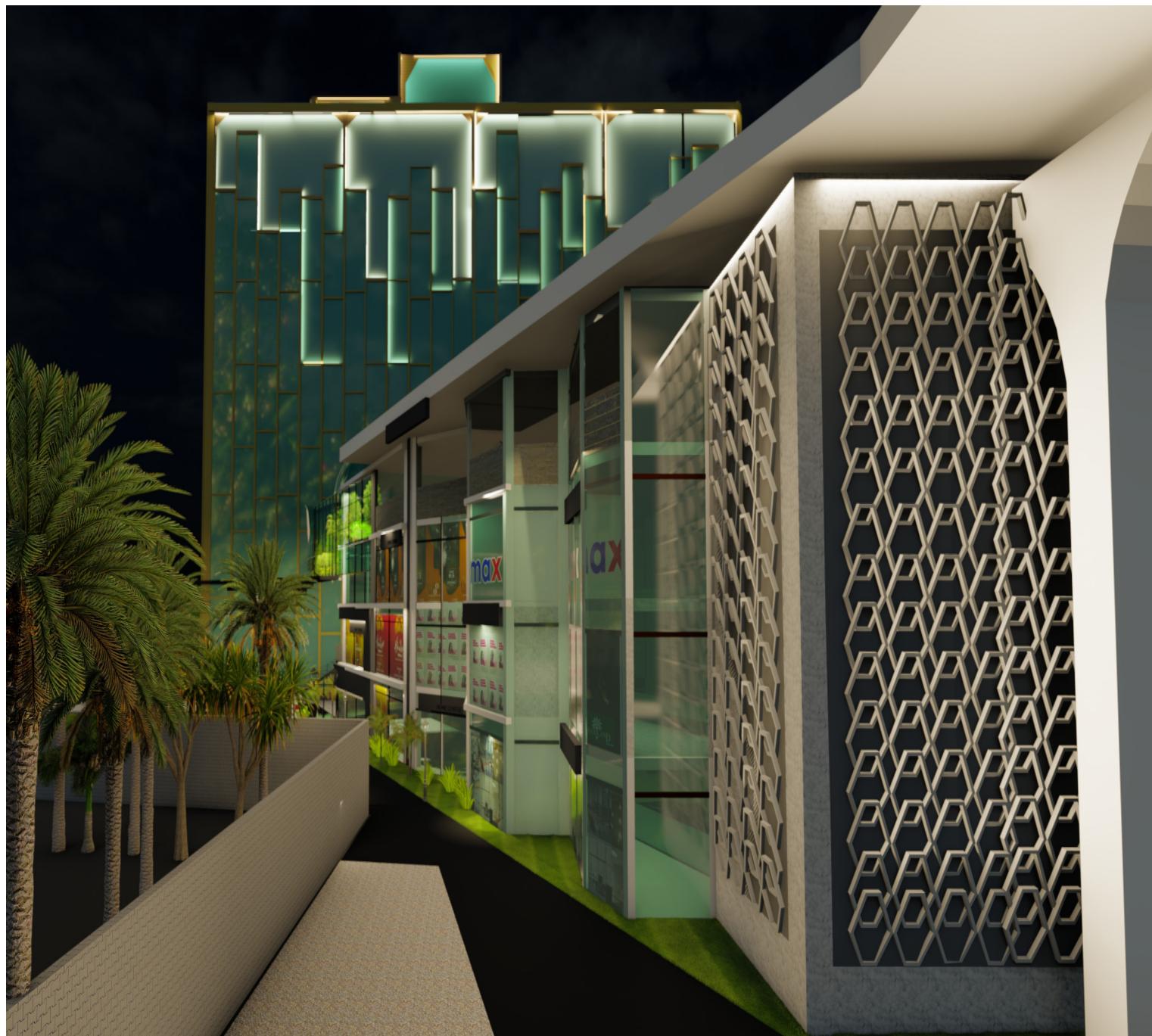
Revive The Context

Rather than it being a mere architectural expression, the building should have a holistic approach towards responding to the site it is in.

The office design should be a people-oriented design responding to activities, behaviors and current circumstances.



REFLECTIONS



1. To exhibit and establish the configuration between the varied activities of office & commercial.
2. The design should strongly emphasize on visual perception an iconic structure that can serve as a landmark in the stretch.
3. To create a mix of uses that relate to and complement each other and integrate them through site design by providing shared use of public spaces and landscape connections.
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