# r.l.nitya | architecture 2 0 2 2

This book is a display of select projects worked through the academic, internship and professional stages of my journey in architecture. The cohesion of vision, narration, form and function may guide through the process of understanding the projects.



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architecture portfolio



### contemporary caveman

workshop concept to experience living in a sculpture #05

## urban organ

academic project creating a sustainable system

#02

# la cour

professional project exploring the elements

### lampshade professional project

#06

#07

challenging the perception of light

#03

### the learning curve

professional project scuplting out landscape from built professional project creating a world in a shell

#04

### thoonganagaram

academic project binding the city

professional project

distil

#08

### #09

### artist house

professional project hugging the woods

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the cantilever	2
professional project reaching out to the sea	0
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#### #11

### tangent

professional project revolving around a strong social core

#12

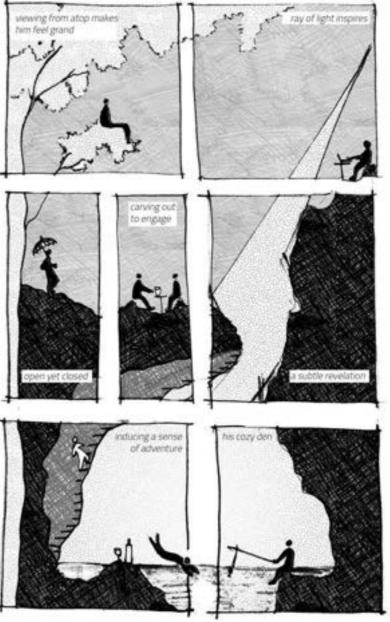
### miscellaneous

glimpses of concepts, workshop outcomes

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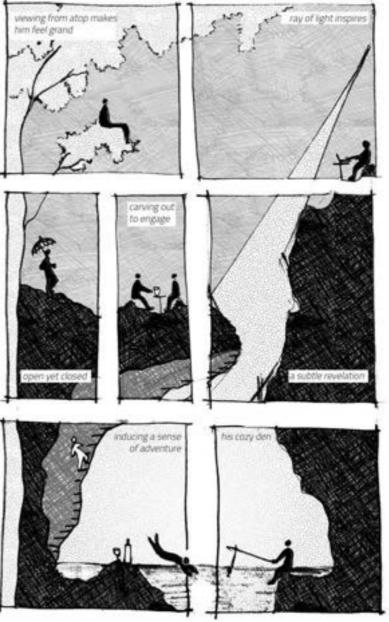
incepting forms from the terrain

### outside in









contemporary caveman a retreat within a sculpture

location coorg, india typology hospitality nature of project workshop outcome at Evolve studio role in process concept, design, presentation individual/group individual

The vision is to create a den for the contemporary caveman, interweaving landscape and waterscape with the built form flowing through organically. The intangibles of his lifestyle preferences will carve out a space for him - a diffused yet defined boundary.

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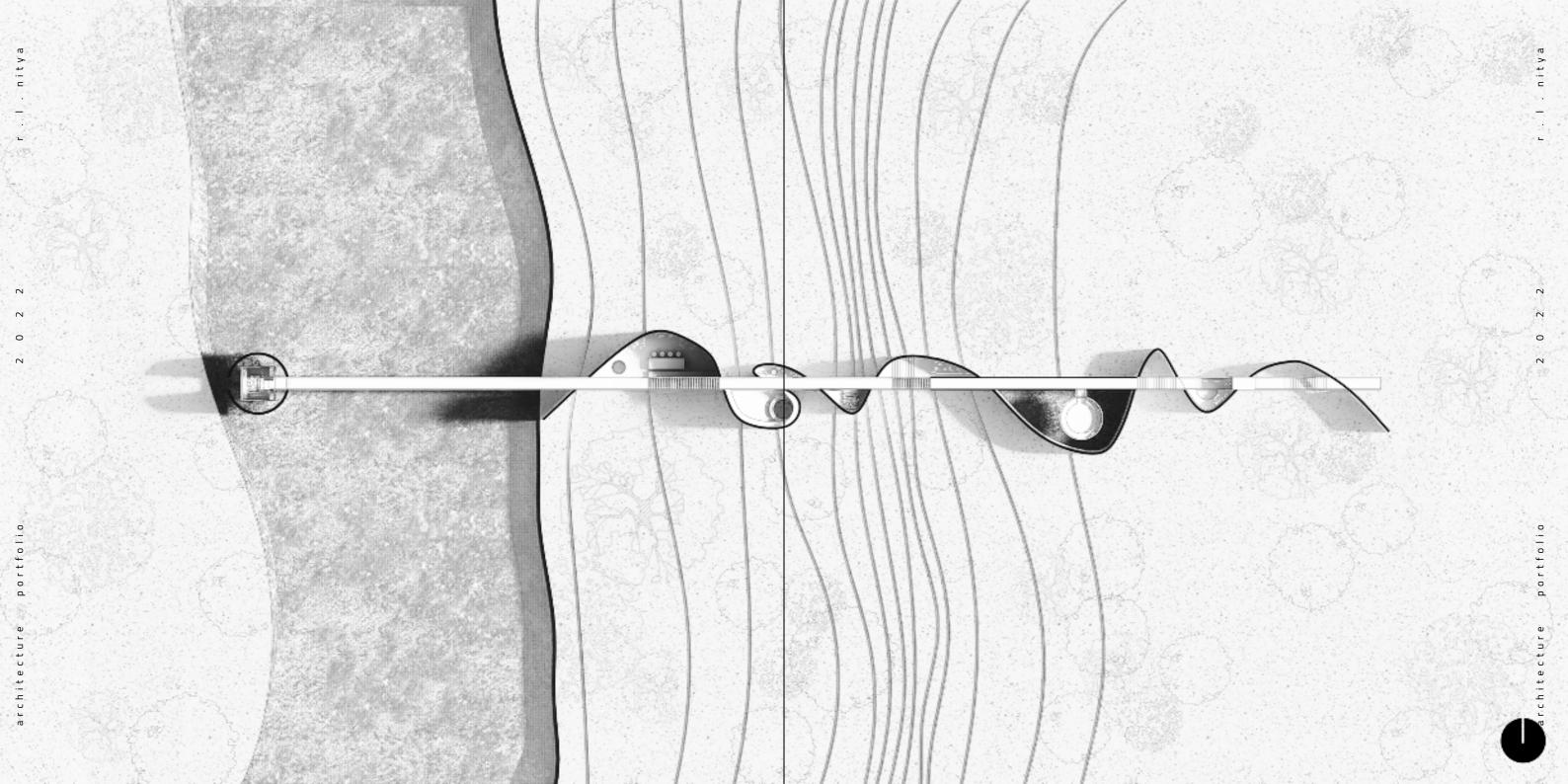
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## there is no space without a boundary

### volume defining light

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form itself paving way for a blade of light to penetrate into the space, the light itself becoming the roof over our head

### exaggerated proportioning

movement through spaces of wide to slender volumes



m-appearing house



planar expression



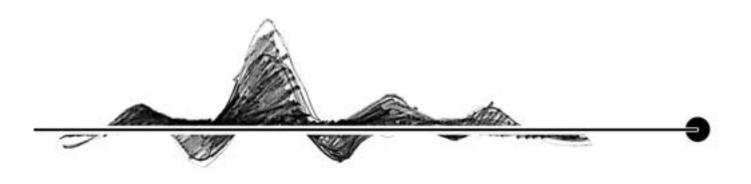


### through the stroke

The vision to blur the lines between landscape and waterscape translates onto forms that organically penetrate in to the setting

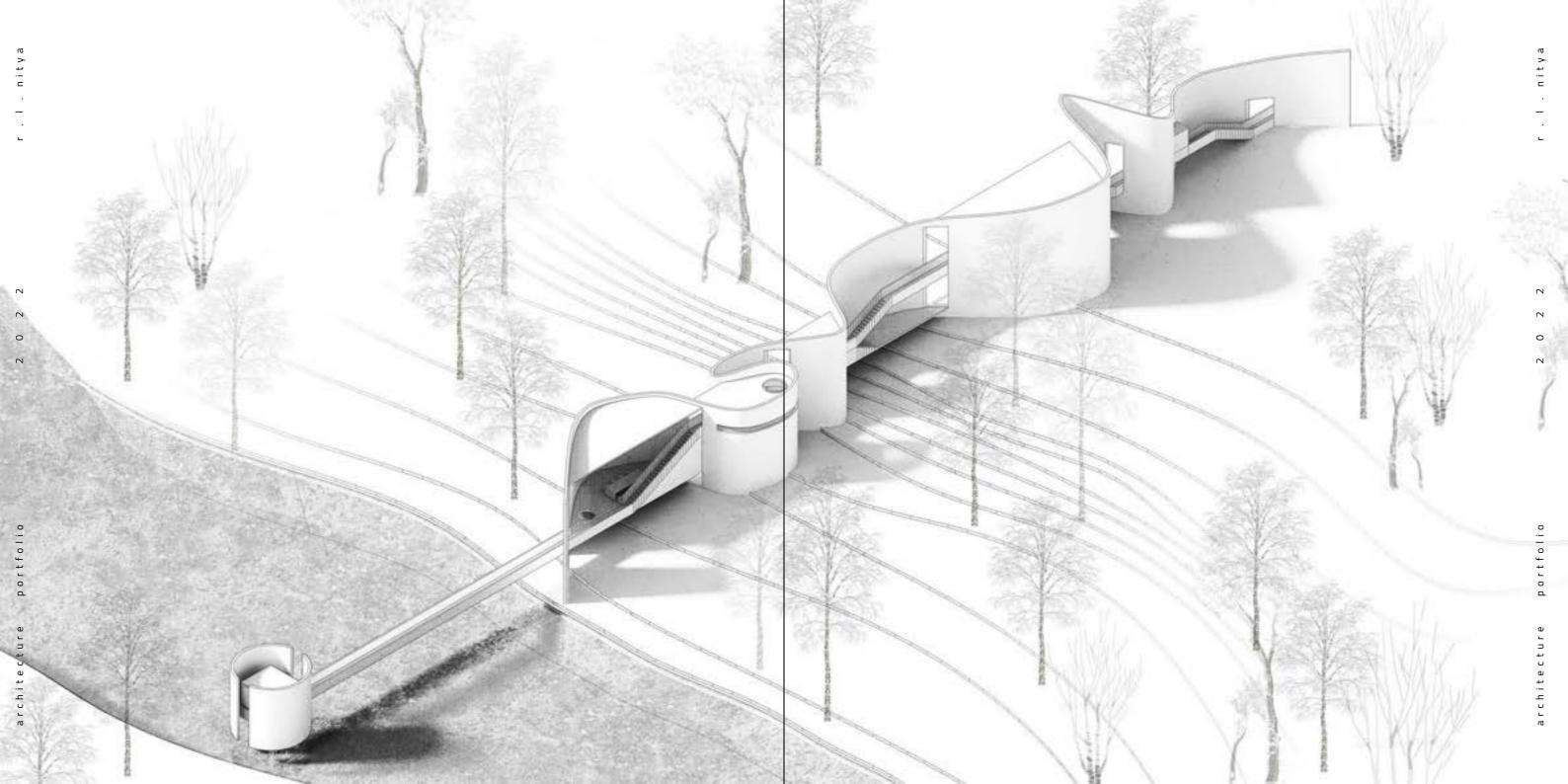


one wall house





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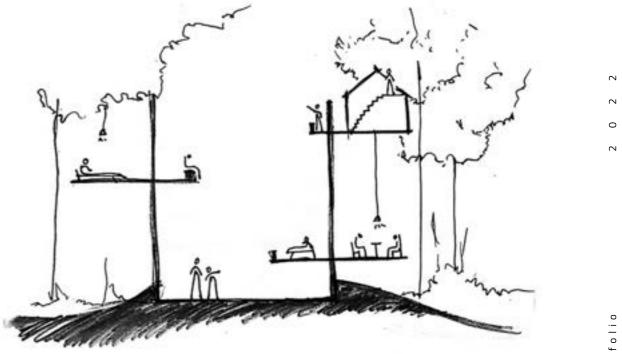




la cour an artist retreat exploring the elements

location auroville, india typology hospitality nature of project professional project at Evolve studio role in process design, drawing, presentation individual/group group

The vision was to create a space for artists to express themselves through self-exploration. Establishing connect with the elements of nature such as light, sky, vegetation, earth and water will allow one to contemplate using architecture to frame these different experiences.



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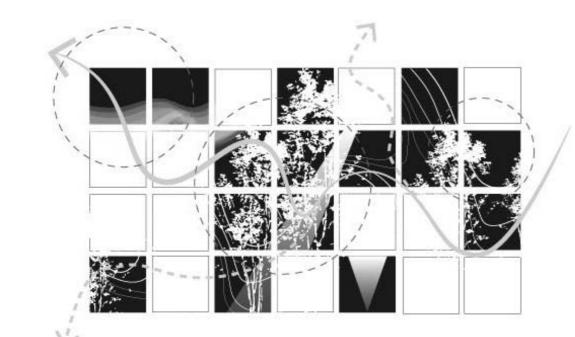
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establishing connect with elements of nature



The vision was to create a space for artists to express themselves through self-exploration. Establishing connect with the elements of nature such as light, sky, vegetation, earth and water will allow one to contemplate using architecture to frame these different experiences.

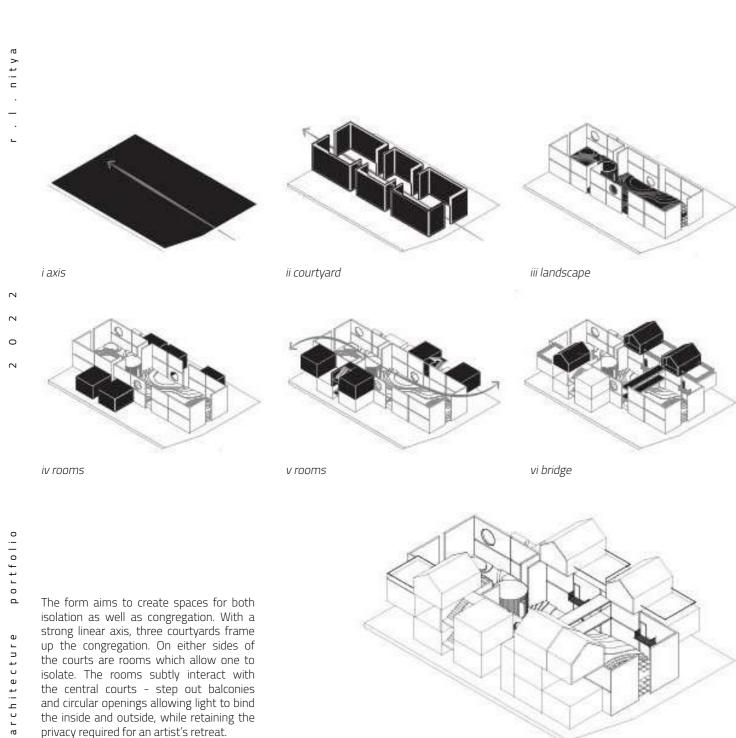


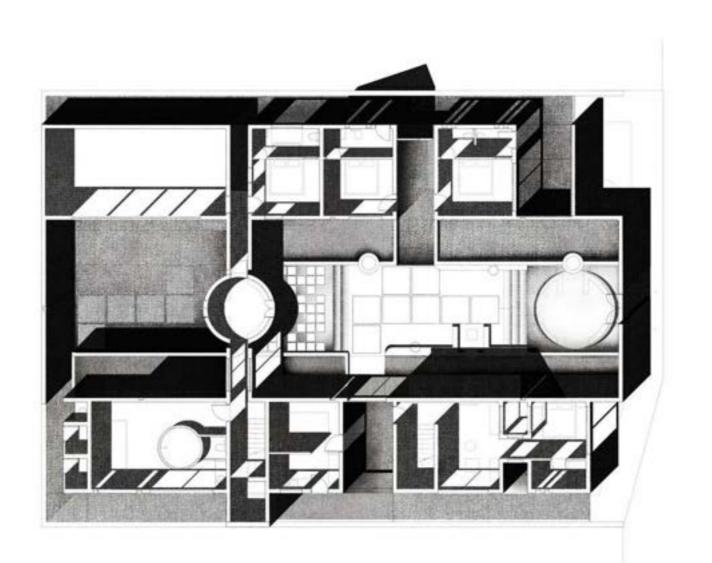
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La cour (The courtyard in French) - The central spine is divided into courts, the entrance court which is more public, the performance court which is a space for the artists to culminate and celebrate. The rooms plug into this main courtyard each interacting differently with the elements of nature. The nature of openings define the character of each of these rooms creating different experiences.

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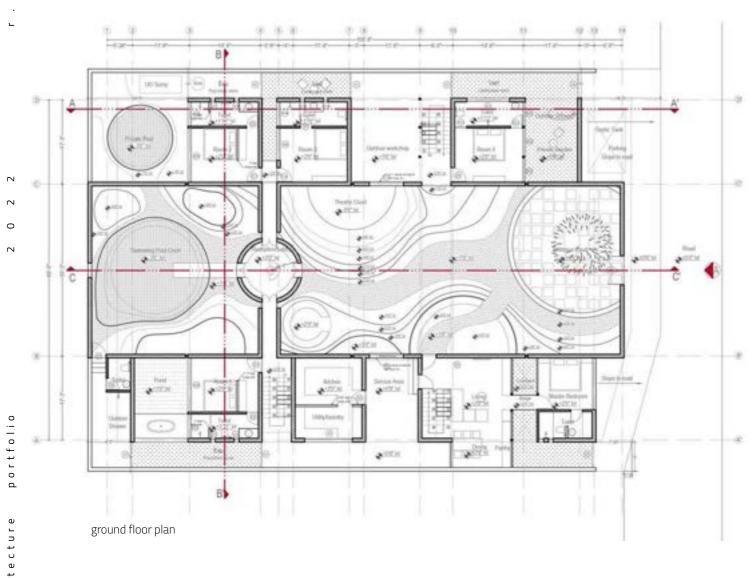
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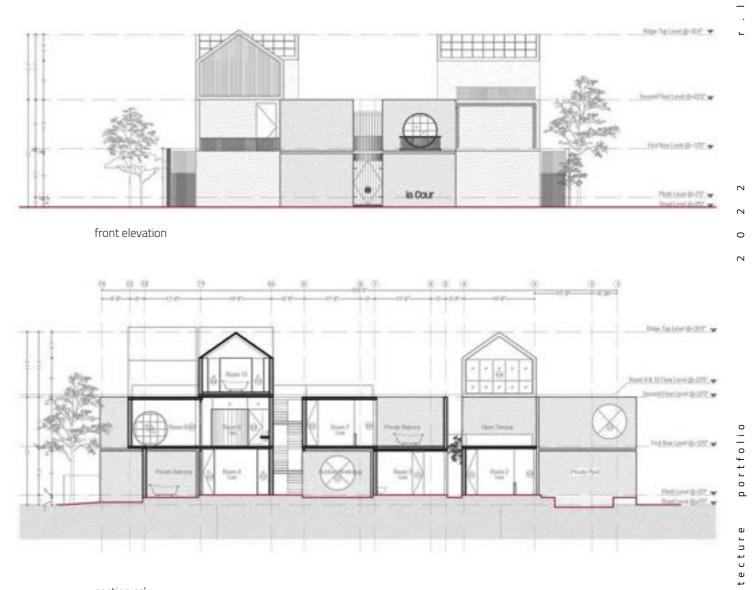
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The project is currently being executed at Auroville with locally processed CSEB blocks, made with soil available on site. The structure is load bearing designed along a minimal geometric yet structural grid. It is planned out for phase wise construction in 3 stages. Steel detailing with wooden architectural volumes articulate the form.



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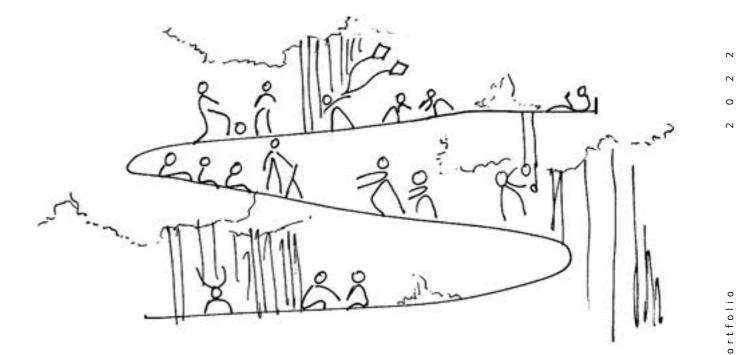


## the learning curve

a school sculpting landscape from the built

location chennai, india typology institutional nature of project professional project at Evolve studio role in process design, drawing, presentation individual/group group

The intent was to sculpt a memorable journey for the kids through the built mass in a dense threshold. An organic contour spine allows the kids to experience the joy akin to trekking through a mountain within the built environment. It induces a radical explorative learning culture through experience.



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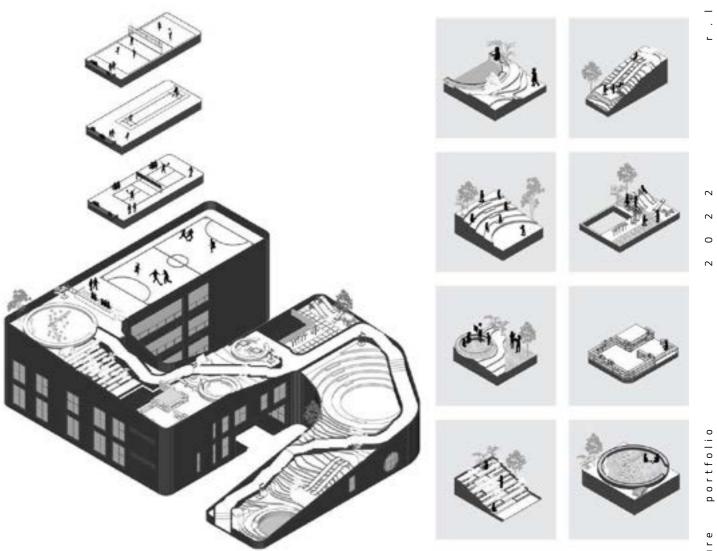
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An adventurous exploration of levels, celebrating the collective through large gatherings, a fun filled experience in water and flexible spaces to explore contribute to the spine inspiring the students to experience the vertical landscape. The vision insists on a collaborative space which is seen through the materiality of the project. Every material used in the building has a unique character and texture which allows the kids to experience the space through all senses.





the organic spine completing the first phase of the project



the second phase floating above the shaded playscape

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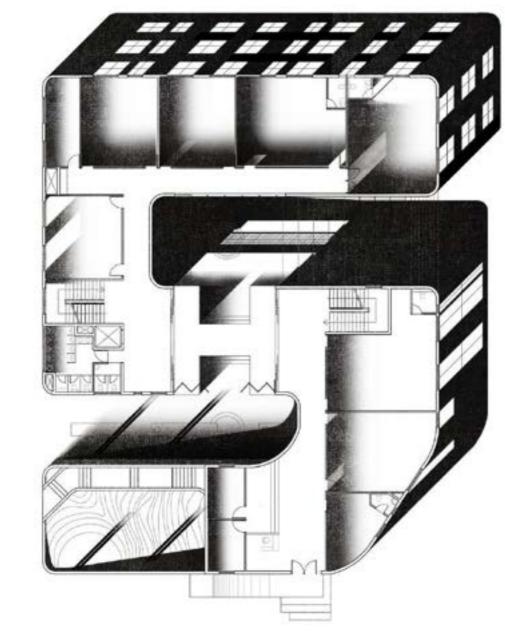
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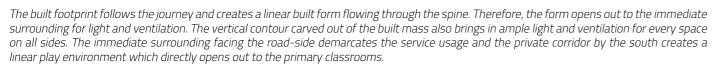


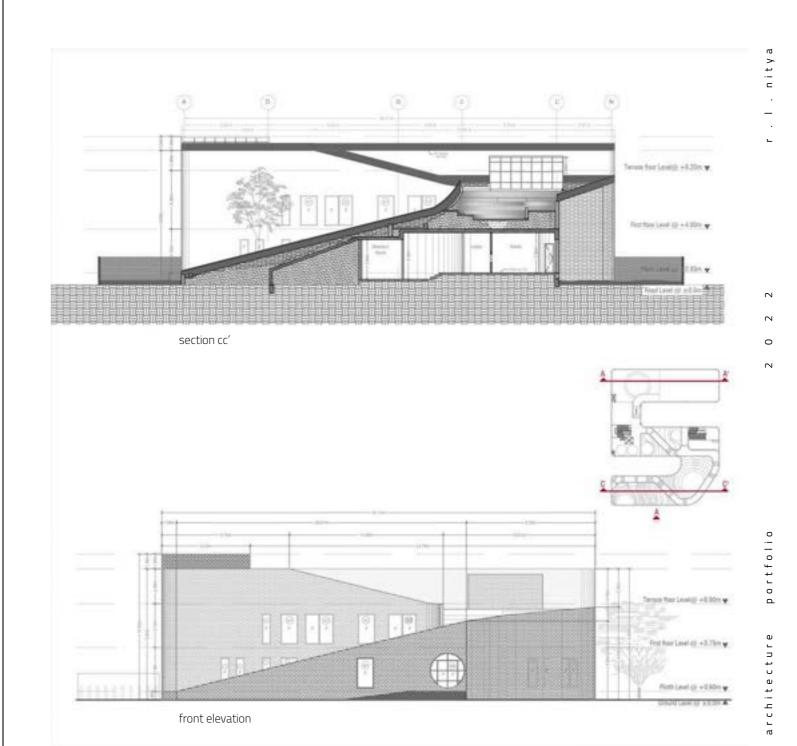
the destination of the learning curve as the futsal zone



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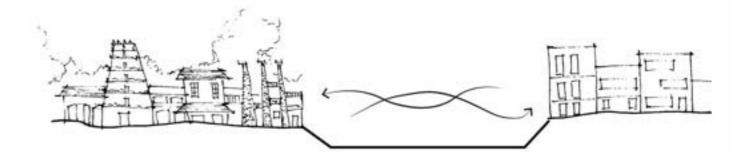


# thoonganagaram

academic project bridging the city

location madurai, india typology urban infrastructure nature of project academic role in process design, presentation individual/group group

'Thoonganagaram' was once the way Madurai was referred to. Today, it means nothing, contrary to what a growing Tier-II city should feel like. The proposed bridge aims to transform Madurai by bringing together people, different cultures and revive invaluable dying arts of the city. An active congregational space open 24 hours to connect the Old city with the New.



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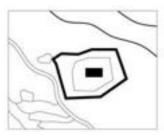
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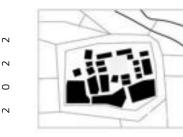
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### Temple town to city

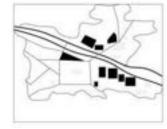


Temple at the centre fortified settlement inside concentric square planning



Inner city becoming dense





Wall broken - bridges and lines laid

#### Urban concerns of Madurai city

Present condition

#### Cultural disconnect

A strong line of cultural disconnect is felt in Madurai city, one which lacks identity, struggling to face the future or cherish the past.

#### Lack of secular congregational space

Madurai severely lacks places of assembly for public gatherings, social activities, and public meetings. The Meenakshi Amman temple once served as a congregational space, but is not a secular space in today's context of mixed demographics.

#### Walkability

Broken pedestrian pathways, and with obstructions, have resulted in pedestrians using the carriageway for walking. Vehicles also face obstructions at unexpected intervals which result in accidents due to collisions.

#### Market Usability

The market area is cluttered with people, animals, vegetable wastes along with further garbage dumped over them, motorised vehicles inclusive of buses in the narrow lane and non-motorised vehicles which come there to load and unload in front of shops.

#### Encroachment of street vendors

Lack of designted space for street vendor have resulted in encroachments in the carriageway, disruption traffic flow. Vendor activities add character to streets and act as 'eyes' for the street.

#### NMTs uncategorised in carriageway

Lack of lane system result in accidents. Nonmotorised vehicles are plenty, traveling at lower speeds. Loading carts especially move at around 5km/h which results in collisions due to speed.



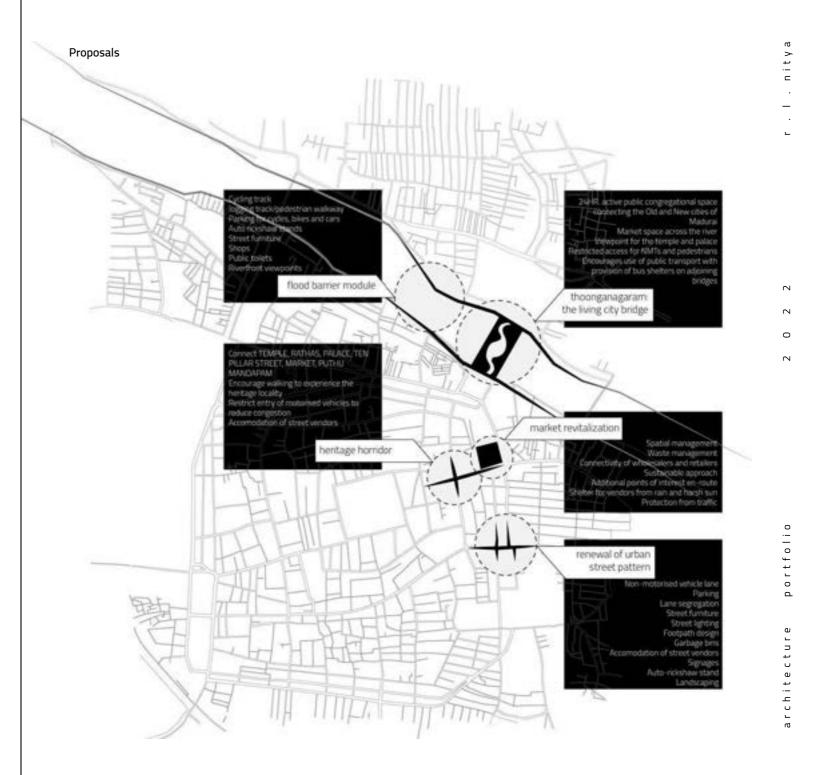
Dense figure-ground providing no opportunity to carve out a public space



Sparse vegetation, city lacks breathing spaces



Traffic congestion along primary and secondary roads, bikes encroach pedestrian pathways



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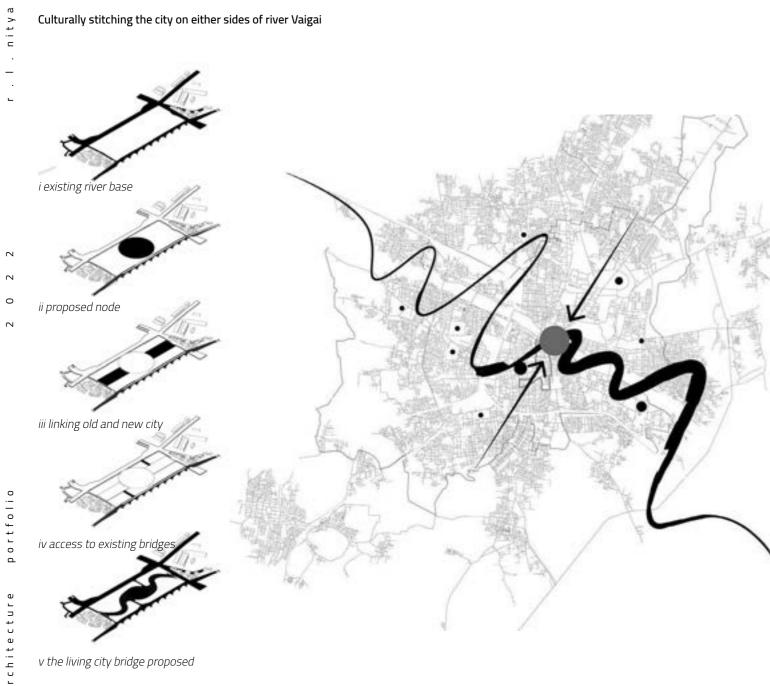
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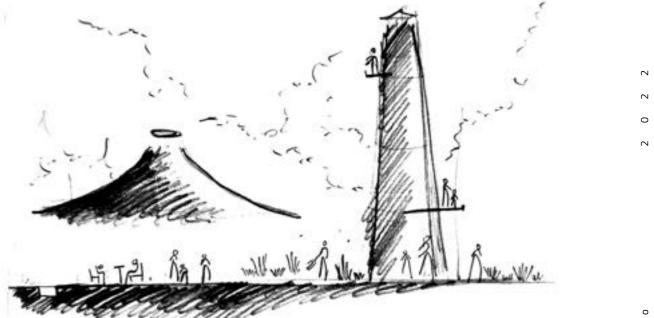
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urban organ urban node concept through food and architecture

location chennai, india typology institutional nature of project academic project role in process design, drawing, presentation individual/group individual

The vision was to create a system of tackling the despairing hunger situation in India through architecture and its integral elements - urbanism, landscape and the built environment. It would aim to work as a plugin to major cities by utilizing government-owned vacant lands - to create food nodes.



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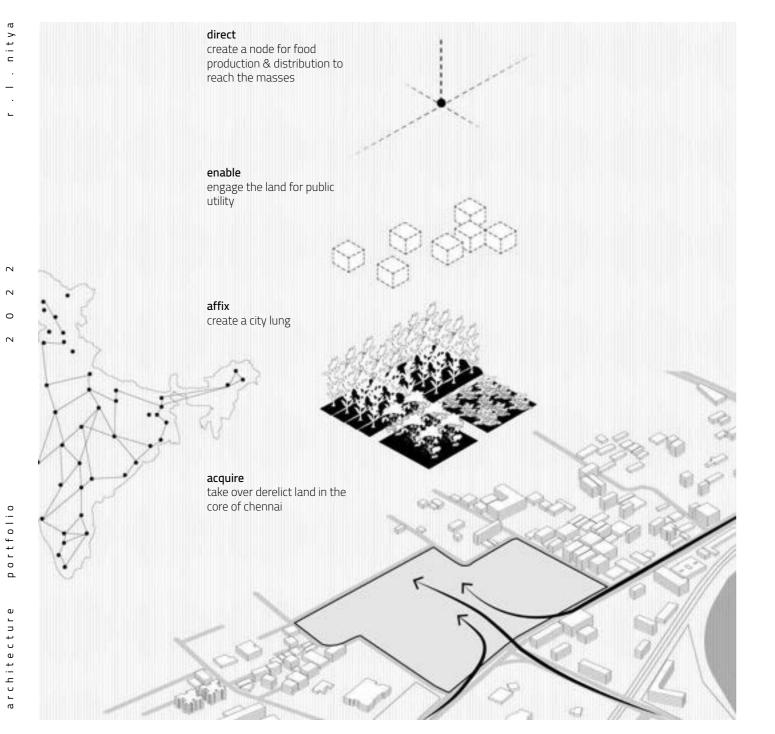
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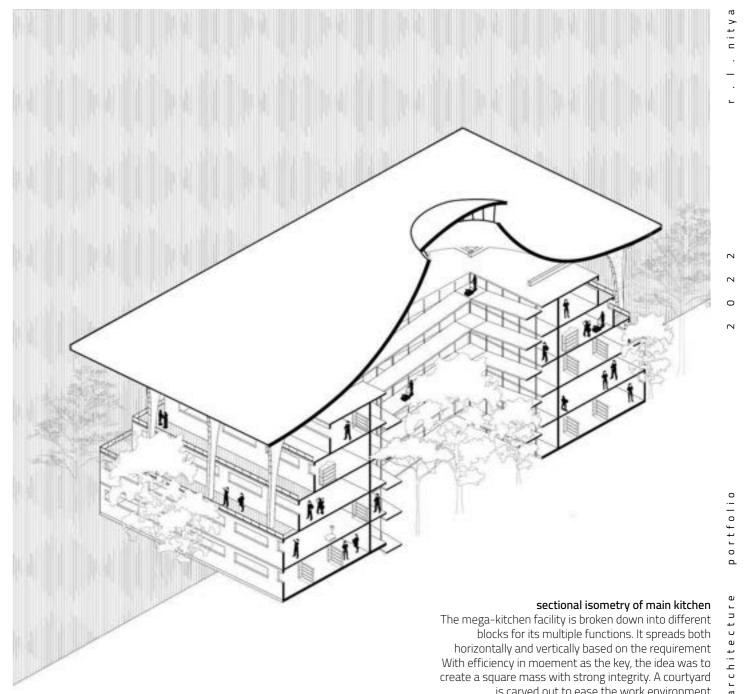
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quare mass with strong integrity. A courtyard vision is carved out to ease the work environment vision visi

The site functions are rotated by 45 degrees to minimize heat gain in the facility. The system works as an organ for the city as an organ performs in the human body - by inegrating functions of society, architecture and landscape. This would define a new kind of a public space - one that brings together people for food as the cause. The landscape, built mass, technology with people fueling it, work together as a machine.

B+G+3 Main Kitchen Drying racks for spices

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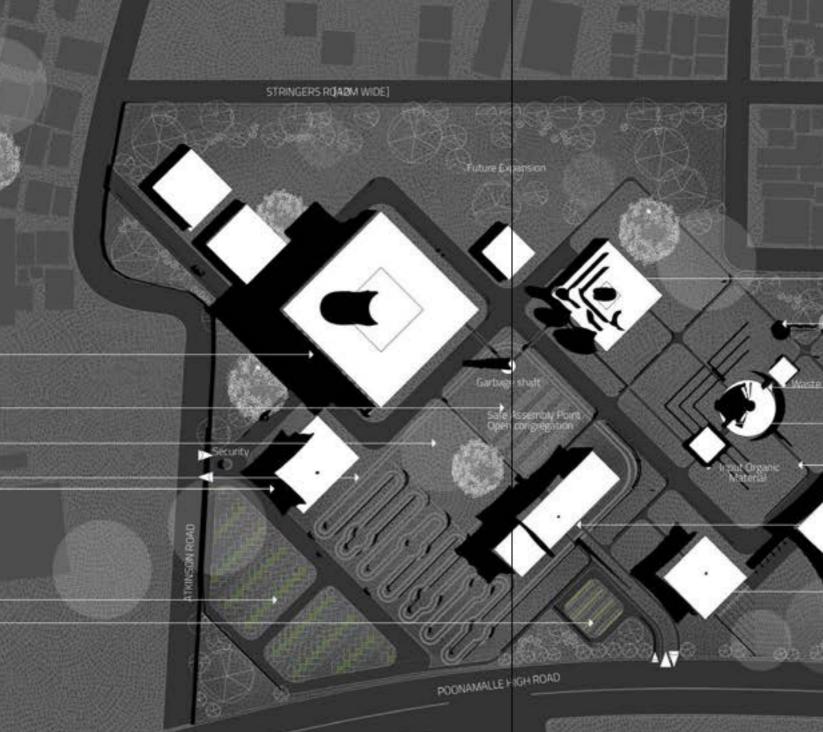
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Root Zone Treatment

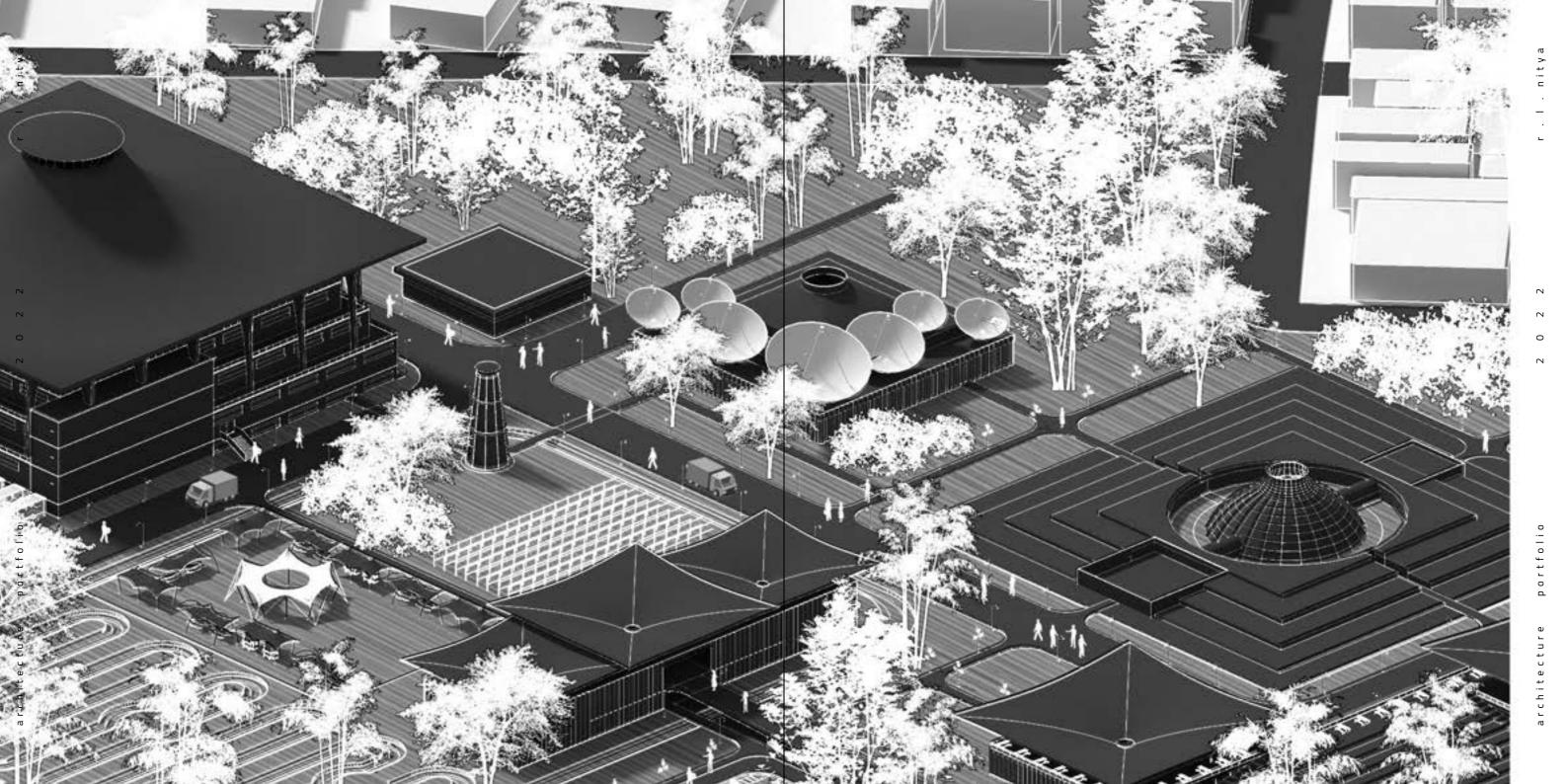
G+2 Surveillance Admin General areas

2-Wheeler Parking



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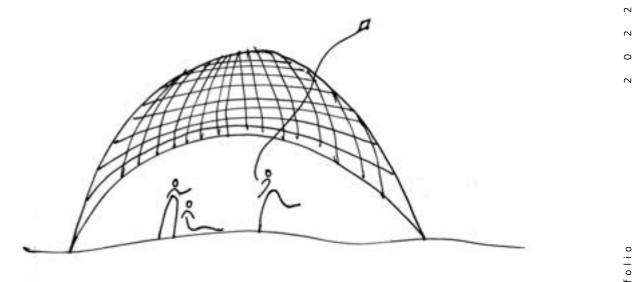


### lampshade

installation challenging the perception of light

location singapore typology installation nature of project internship project (collaboration of Snohetta & Bambooroo) role in process drawing, on site construction, execution individual/group group

Lampshade is an installation constructed by simple bamboo structures covered with photovoltaic cells. By intensifying the light experience in an interior dome space, the aim is to show visitors the direct link between capturing sunlight, the production of electricity, and the power of light.



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- The juxtaposition of the hand-made bamboo structure and the ready-made lamps create a tension between contextual and generic products, encouraging the discussion of controversial opinions relating to environmental approaches.
- The structure is a paraboloid form, which is created by a grid of exactly same parabolic curves forming a mesh by displacing each curve to form an opening below whilst blowing up above towards the centre.

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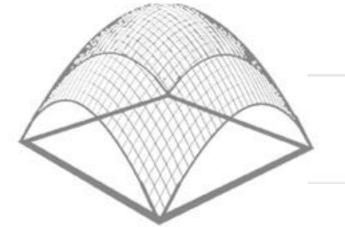
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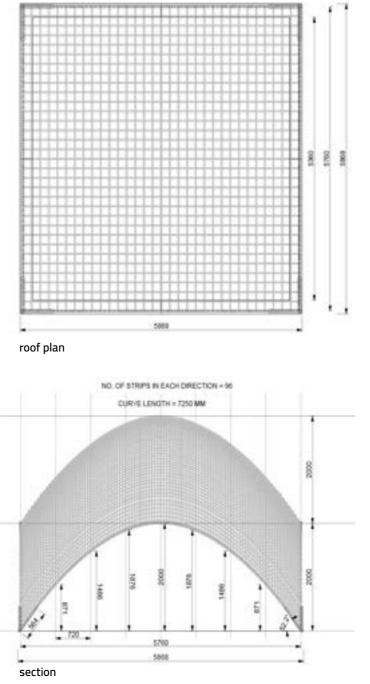
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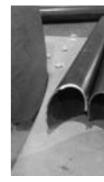
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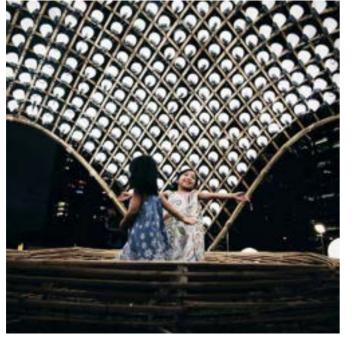
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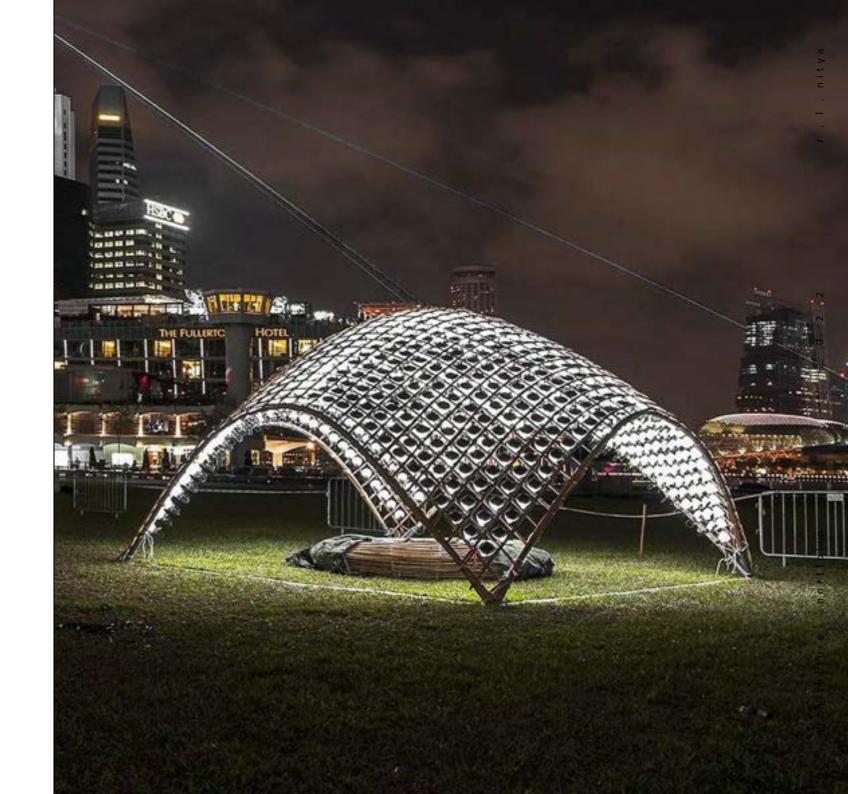
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The structure creates shade and an escape from direct sunlight during the day, and intensively lights up at night using solar energy collected during the day. The transformation and continuance of light happens within the same system, bringing the light from outside to inside.



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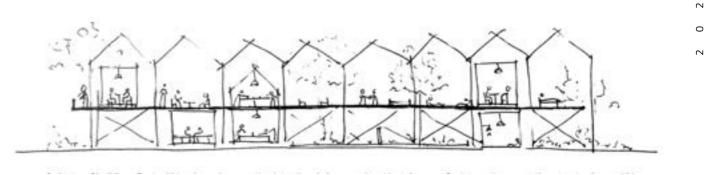
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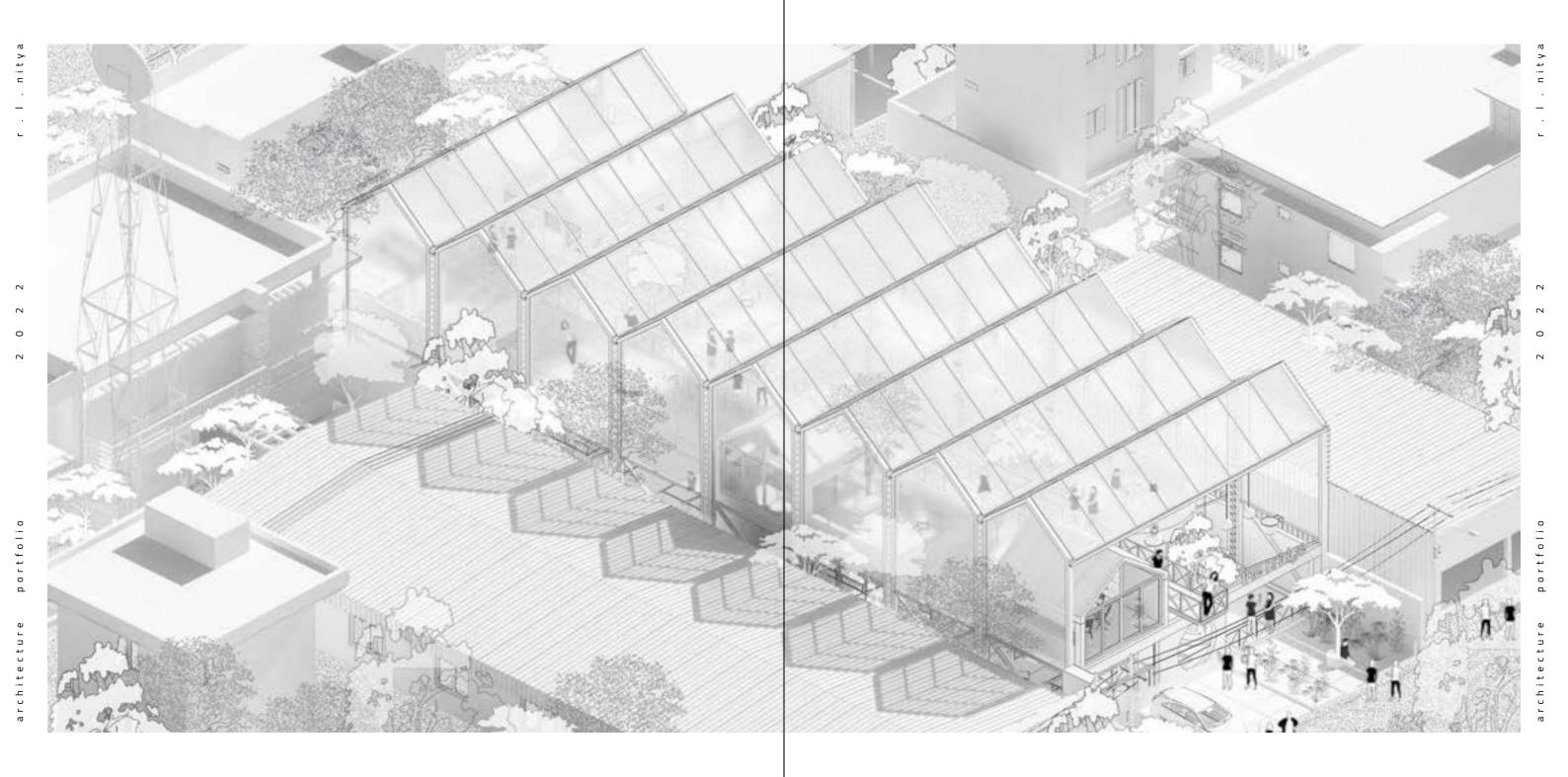
outside in a recreational zone within a shell

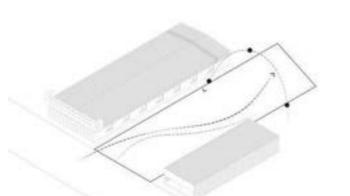
location coorg, india typology recreational nature of project professional project at Evolve studio role in process design, drawing, presentation individual/group group

A cluster of buildings float within a boundary creating intentional plazas and accidental spaces for interaction, recreating a street culture within.



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i site - The linear site providing opportunity to create a streetscape narration.





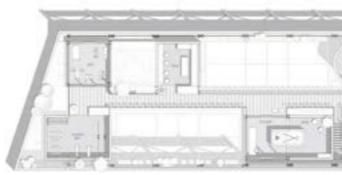
iii plazas - Open spaces are carved out of the grid pattern creating courtyards and plazas as in a street.

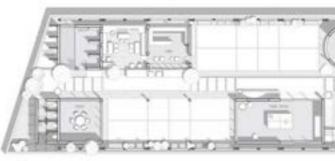


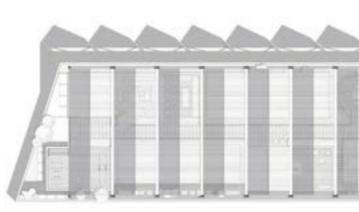
iv bridge - The upper level of the street forms the soul of the space tying the volume together and a major zone of accidental interactions amongst activites.

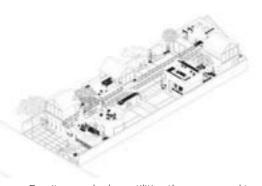


vi shell - The shell creates an inner world of enriching activities, feeling vast yet cozy in a busy setting.

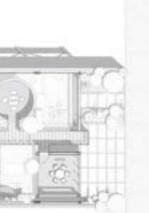








v urban furniture - Furniture and urban utilities thrown around to create engaging spaces giving life to the form and space.



### ground floor plan

A clear square grid planning resulting in an organized yet diverse planning which choerently creates an organic community.

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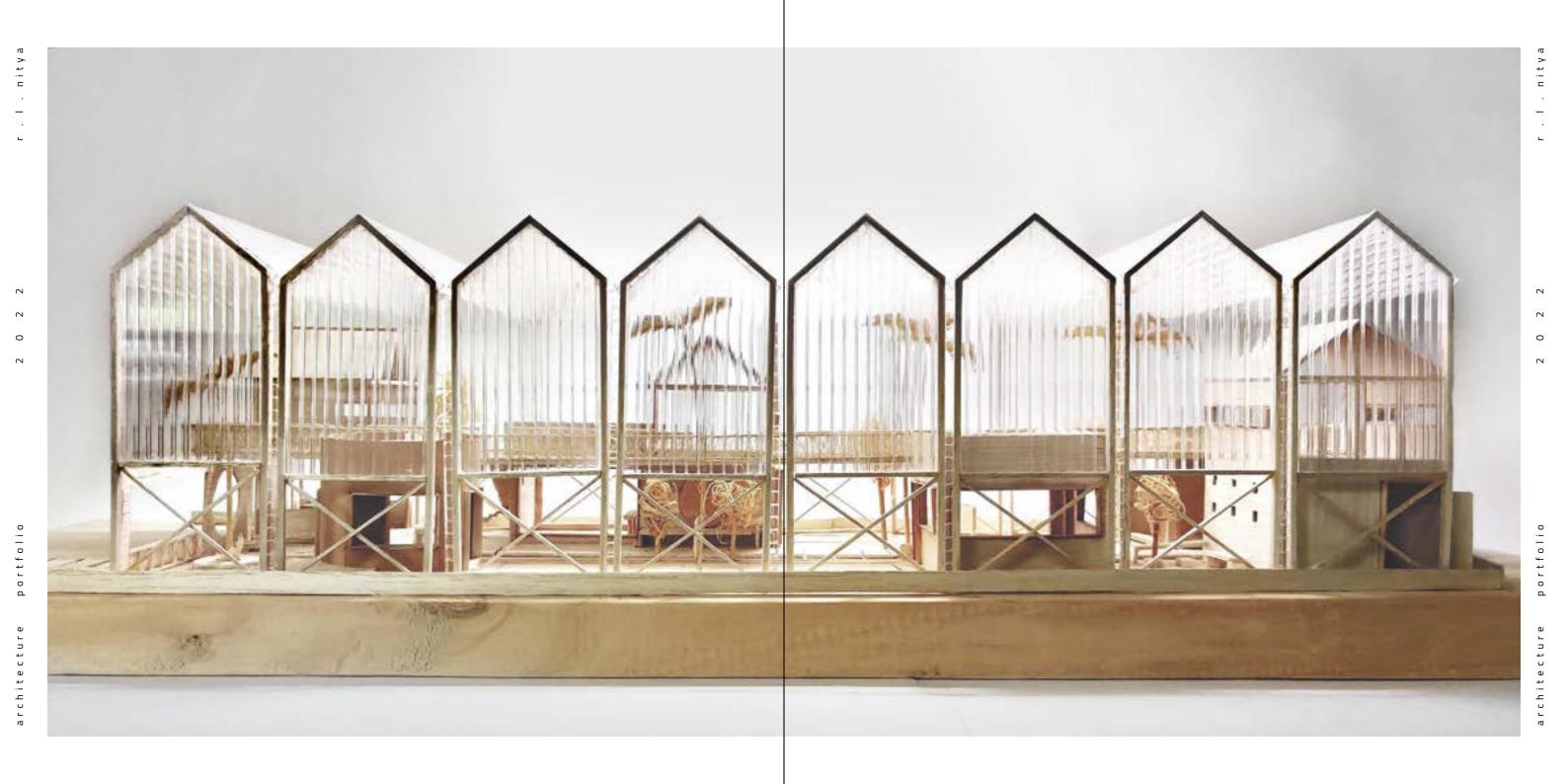
### first floor plan

The bridge deck branches out organically into the rooms and terraces comprising the gym, billiards, cards room and informal cafe spaces.

# roof plan

The roof-scape defined by the array of peaks, creates a landmark in a busy setting. A 🗧 translucent light box that glows during day and night.

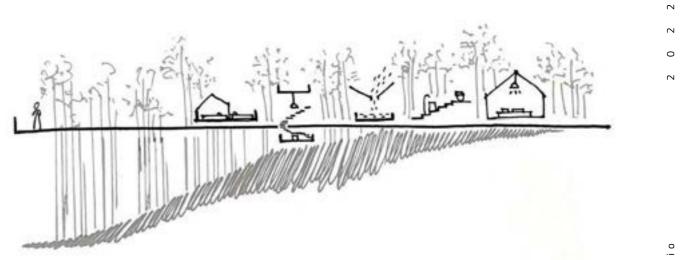
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distil incepting forms from the terrain

location coorg, india typology hospitality nature of project professional project at Evolve studio role in process design, drawing, presentation individual/group group

Pure geometric forms exhibit themselves on a spine - each unit expressing itself uniquely on the terrain, creating soulful experiences as resort rooms.



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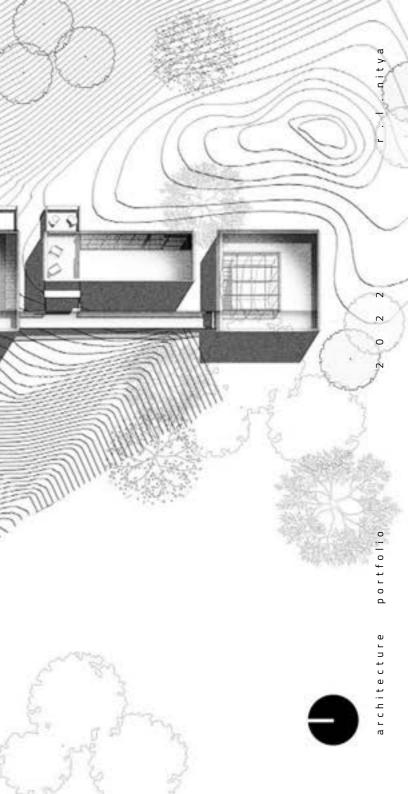
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roof scio plan

Set on a steep contoured terrain, each of the resort rooms express itself in a pure geometric shape composition. A strong axis connects the forms as a bridge through the open and closed to access the rooms. A journey through the contours leads the user to a large receiving courtyard. Spatial transition from the public to private spaces happens along the spine steadily.  $\mathbb{C}$ 





## #09

artist house cabin hugging the landscape

location goa, india typology hospitality nature of project internship project at Studio MoMo role in process drawing, presentation individual/group group

A creek side studio for an artist - a simple form born from the context with a hint of the native material and form language of Goan houses.



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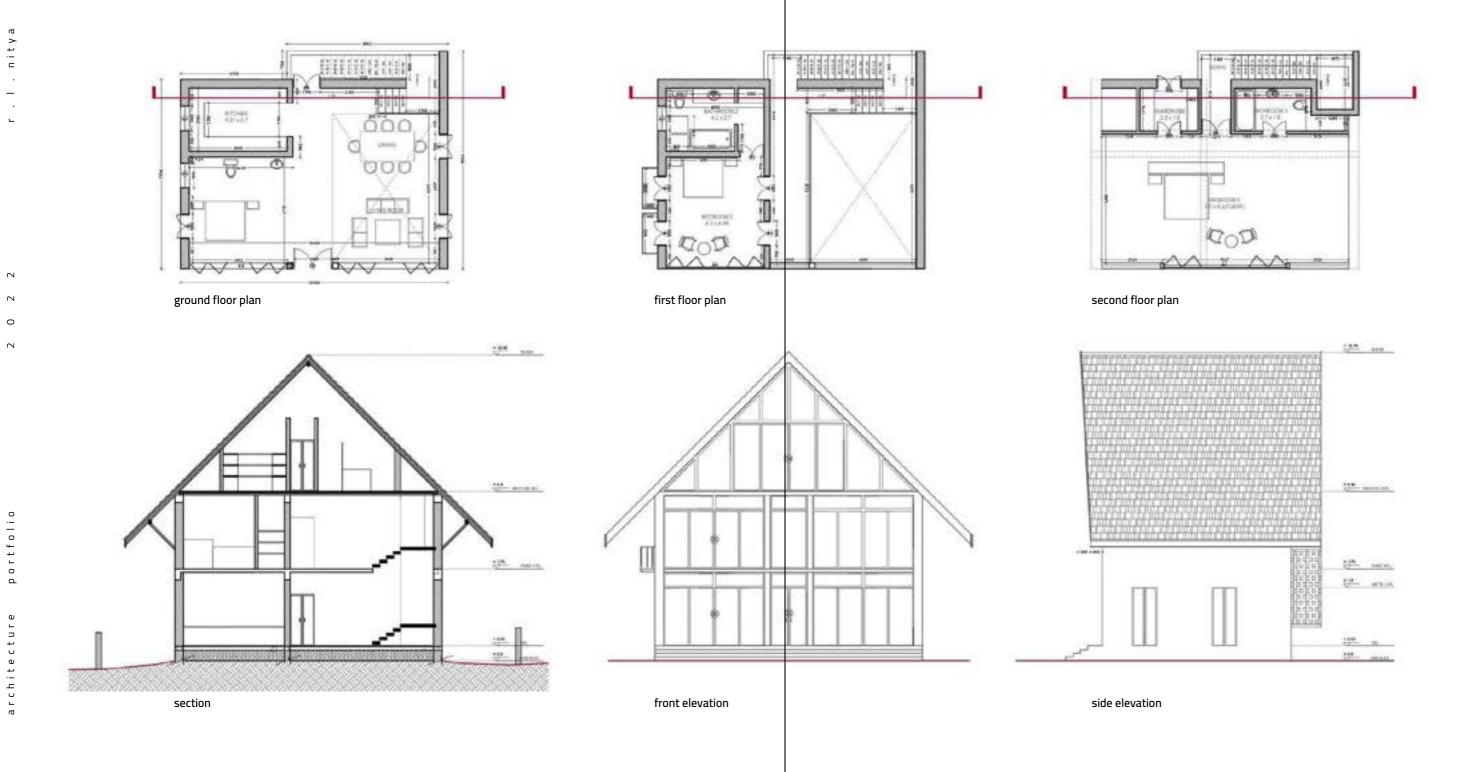
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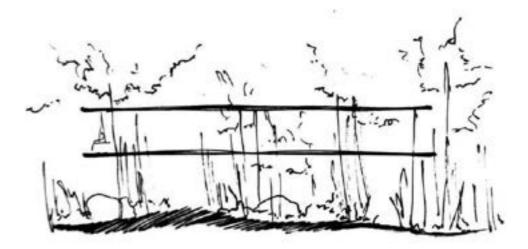


## #10

the cantilever beach house reaching out to the sea

location chennai, india typology residential nature of project professional project at Evolve studio role in process design, drawing, presentation individual/group group

A floating volume amidst the landscape that overlooks the ocean.



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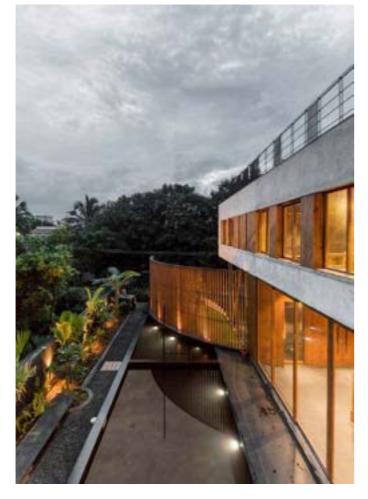
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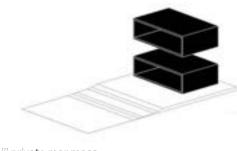
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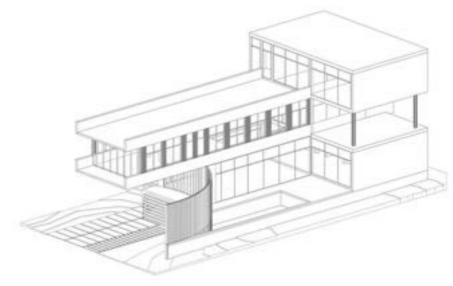
the linear volume reaching put towards the sea - the landscape, water & built in parallel axes



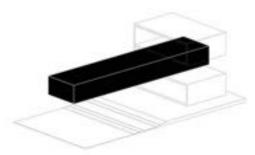
i site



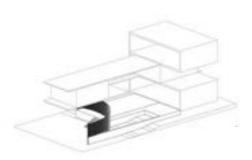
iii private rear mass



v the form



ii floating mass



iv entrance court

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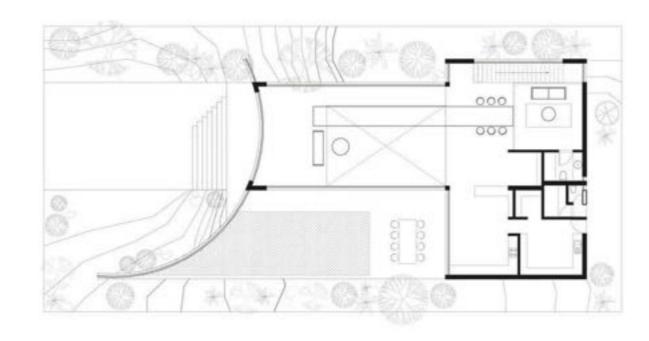
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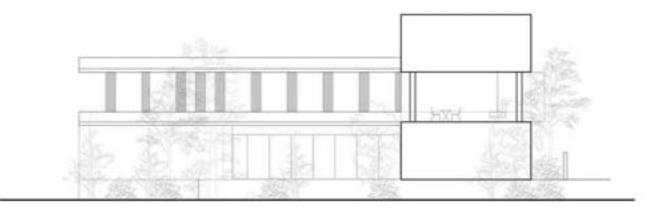
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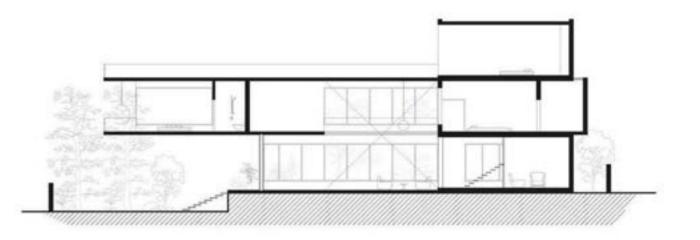
ground floor plan



side elevation

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first floor sciography plan



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kinked MS handrail welded to MS plate fixed on 2''x 2''teak wood



Triangulated grab bar Three MS rods combine with intermediate ties to form a steady grab bar



Three dimensional mesh rail The triangulation drops down to the floor for vertical support



Grooves for louvered frost glass vents in the restroom slit windows with MS safety rods



Stone - wood - metal Granite stone sits above a series of wooden vertical louvers to form an arched curve in the entrance court



Folded metal plate stair MS plate folded to form a single flight, parallely another flight is staggered for left-right step access to make a single user stair to terrace.

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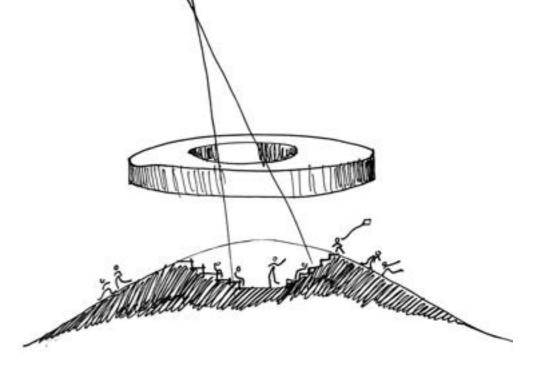
#### #11

# tangent

a school revolving around a strong social core

location coimbatore, india typology institutional nature of project professional project at Evolve studio role in process design, drawing, presentation individual/group group

The vision was to create a strong social core in a form that brings the school together. The site being triangular, the proposed form fits in like a glove in a monolithic shape grammar with the circle and its tangential line.



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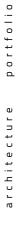
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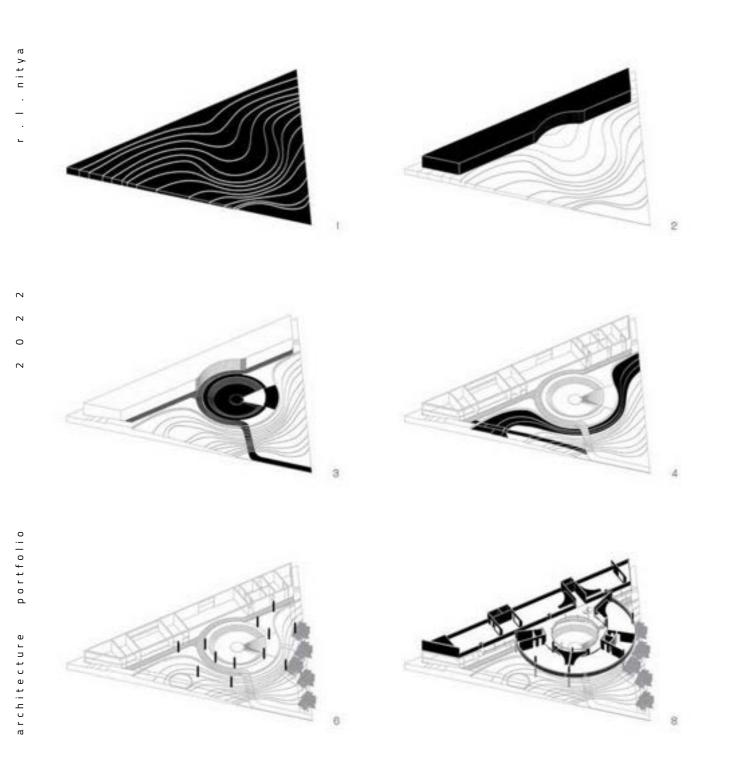
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#12 miscellaneous works

the mini brick cellular configuration

nature of project personal project role in process design, model individual/group individual

The idea was to create minature bricks to self-explore form compositions with a cellular material such as a brick that can be multi iterated to explore monolithic form geometry. Locally available clay was sourced in Chennai, later pigmented for tonal variants. The bricks were partially sun baked and oven baked as in a kiln after packing them in tablet packs for shape uniformity. The material composition was tweaked based on results.



architecture portfolio

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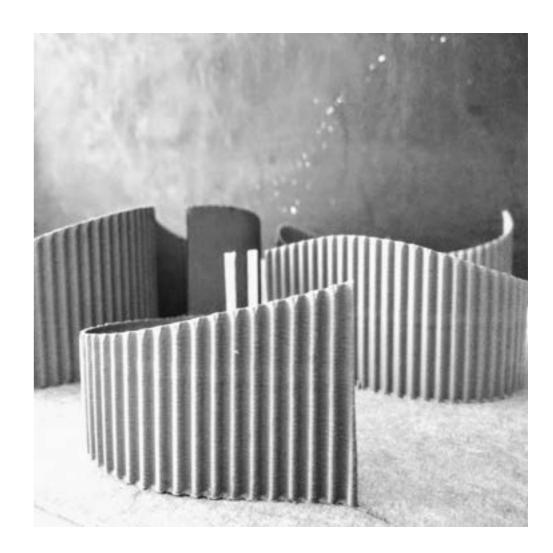
#### #12 miscellaneous works

#### undulate

a non-rigid pattern language exploration

nature of project workshop outcome at Evolve studio role in process design, model individual/group individual

Pattern language exploration activity - A maze through the planar folds, spaces created by the organic planes of varying hierarchy creating a subtle drama throughout. Light, shade and shadow are felt softer in organic planes. Corrugated sheets to add a layer of texture to the space.



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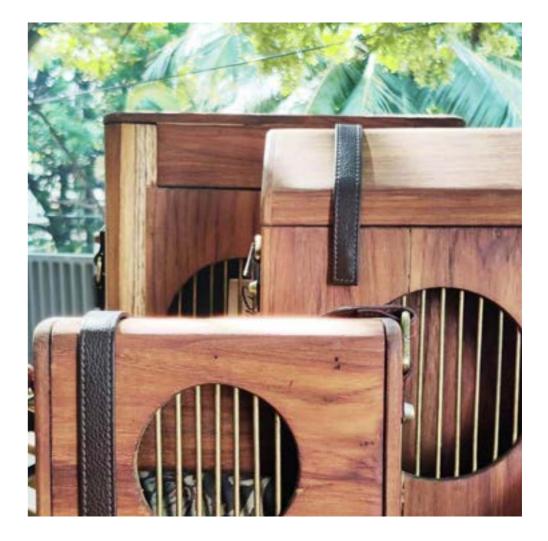
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#### #12 miscellaneous works

indian woods wood wearing its novel identity

nature of project venture at Evolve studio role in process design, drawing individual/group group

Wood being a fascinating material, inspires a lot more purpose in everyday life, much more than just the architectural purpose previously sought. A product and lifestyle design venture by Evolve, wood comes to life in exciting new ways in a design language extended from its architecture. Glimpse of the experiments are shown (right), that are yet to be released.



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let's create together

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