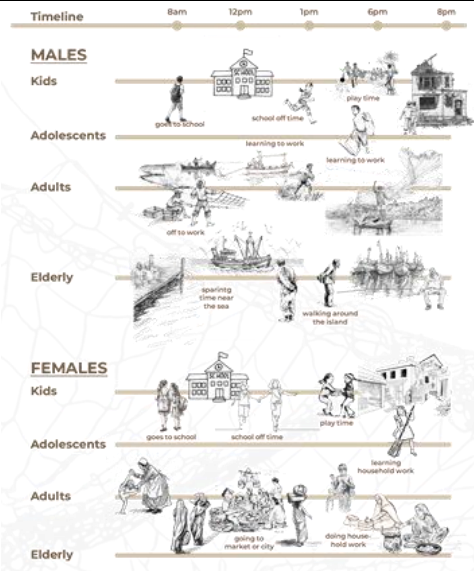
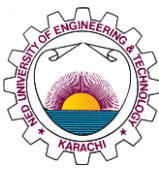


## Final Year Project Showcase Batch 2019 Year 2024

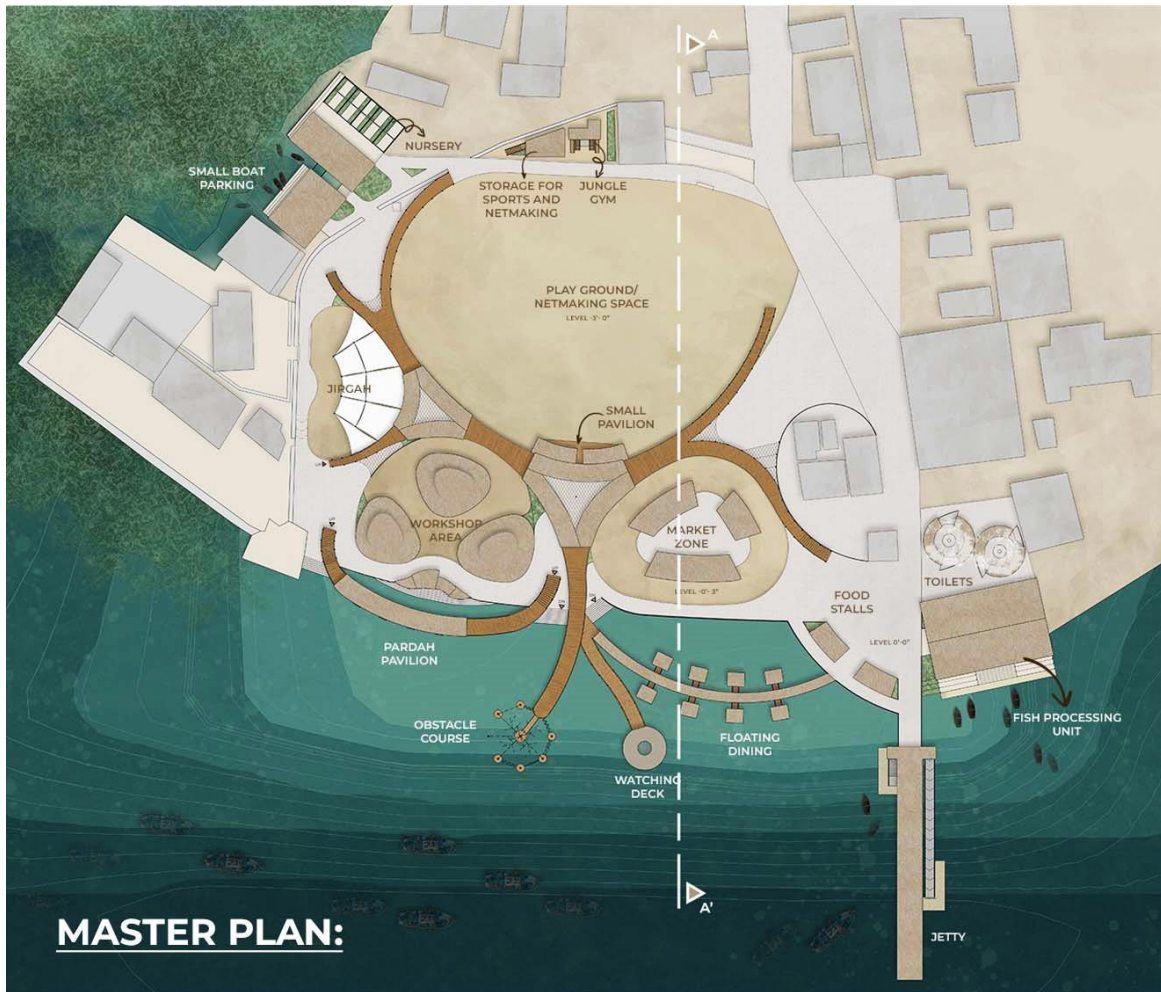
Department: Architecture and Planning Programme: Architecture	
1	<b>Project Idea</b> Architectural interventions can help enhancing the socio-economic conditions of the fisherman communities.
2	<b>Process</b> The research takes a start with reviewing literature available on origin of Karachi eventually moving to Karachi's coastal regions and the fisherman communities and finding data available on fishing communities in Karachi. This data gives a brief idea of geographical development, economic Evolution, societal evolution, Ecological Transformation in the fisherman communities. After analyzing the already existing data, identification of gaps in the research is done. Primary research in five fishing communities in Karachi is done to triangulate the existing data and to know the unknown about these communities. Primary research starts with initial visits to five fishing villages in Karachi. These include an island and four mainland communities. <ul style="list-style-type: none"><li>• Questionnaire surveys are done with people in order to understand their knowledge and perspective about such communities.</li><li>• Interviews are be conducted with philanthropists, social activist working for such communities.</li><li>• Interviews with architects and planners are conducted to be able to understand the possibilities of enhancing the physical conditions of these communities.</li></ul> Baba island is chosen for focused area documentation due to its geographical location and community. After collection of primary data, a typology "Socio-economic hub" is finalized to continue with the design. A Design program focused on revitalizing the community is developed leading to a suitable design brief. A suitable site is chosen on the island and further design process continues.
3	<b>Outcome</b> As a result of this thesis research a design program is created encompassing possible architectural solutions that can support and enhance the culture and lifestyle of the fisherman communities.
4	<b>Evidence (Theoretical Basis)</b> Karachi being the largest city of Pakistan bears much importance. This large city consists of diverse range of ethnic groups, putting a question mark to the identity of this mega city. For years Karachi has been suffering from strain, being a mega city, with its conditions getting worse. The most affected by these are the marginalized communities paying the most through their hard work. These communities also include the fisherman communities dating back to Karachi's origin. The importance that they get is not even a percent of what they deserve. کئی روز پرانی بات ہے کہ ویرانے وہ آباد ہوئے یہ شہر بسایا جس نے وہ لوگ سبھی برباد ہوئے ہم رہے ہیں ہم دل کہ ڈوب رہے ہیں ہم حالیہ دنوں میں سنایا بار سنایا رہیں تکتے وہ مچھیرے لے کر گم فریاد ہوئے There is a big need of uplifting these original communities which eventually would help in the social, cultural, economic and physical upgradation of the city. The natives would get what they deserve and the society would be able to understand the importance of such fisherman communities. This thesis aims to identify what part architecture can play in uplifting the fisherman communities, retaining the essence of such communities.

5	<p><b>Impact on Sustainability of Urban Regions or SDG-11 “Sustainable Cities and Communities”</b></p> <p>Sustainability is the key element in revitalizing fishing communities. According to the design program, sustainability is achieved through focus on environmental preservation, community development and bringing economic vitality. The goals are supported by incorporation of suitable materials and architectural interventions respecting the existing context.</p>	
6	<p><b>Competitive Advantage or Unique Selling Proposition</b></p> <p>This project is more about learning from the community and supporting their live style rather than enforcing modern architectural solutions to the community. The process involves learnings from the community and onsite observations. The outcome involves suggestions from the community members itself.</p>	 <p>The diagram illustrates a daily timeline from 8am to 8pm for both males and females, categorized by age groups: Kids, Adolescents, Adults, and Elderly. Activities include going to school, learning to work, play time, off to work, learning to work, sport, walking around the island, going to market or city, and doing household work.</p>
a	<p><b>Attainment of any SDG</b></p> <p>(e.g. How it is achieved and why it is necessary for the region)</p> <p>The project aims to achieve the following five sustainable development goals.</p> <p><b>SDG# 1, (No poverty):</b> Eradicating poverty is the most important goal of the project. The islanders being from the face severe poverty due to negligence of the government, unavailability of basic infrastructure and the disconnect from the mainland. As a solution a locally handled fish processing unit, controlled local tourism, and market place for local venders and interventions like oyster farming and crab farming is planned.</p> <p><b>SDG# 8, (Decent work and economic growth):</b> The program focuses on economic growth by providing spaces for economy generation and learning spaces for the locals. For achieving higher levels of productivity active learning spaces and a fish processing unit is also designed for the island itself.</p> <p><b>SDG# 13, (Climate action):</b> The design program provides solutions to revitalize the degrading environment. The program consists of a nursery for cultivation of mangroves and other salt tolerant plants and it also becomes a place for active learning of the community. Sea weed farming is incorporated which helps in purifying the surrounding water as well as reducing</p>	



	carbon dioxide from the outer environment.	
	<p><b>SDG# 14, (Life Below Water):</b> Fisherman community is the one depending directly onto the marine life for their livelihood. Interventions like seaweed farming can help save marine life from the hazards of polluted sea.</p> <p><b>SDG# 15, (Life on land):</b> Mangroves serve as natural habitats for a lot of birds and marine life. Through this project the importance of mangroves could be brought to the eye of the local community members. Preserving biodiversity is a major part of this program.</p>	
<b>b</b>	<p><b>Environmental Aspect</b> (e.g. carbon reduction, energy-efficient, etc.)</p> <p>Achieving SDG 13, 14 and 15 is the major impact that the design program can bring to preserve the environment.</p>	
<b>c</b>	<p><b>Cost Reduction of Existing Product</b></p> <p>Use of materials like bamboo, wood, rope and thatch can help reduce the project cost. Also the perforated walls adds to cost reduction.</p>	
<b>d</b>	<p><b>Process Improvement which Leads to Superior Product or Cost Reduction, Efficiency Improvement of the Whole Process</b> (e.g. What is the issue in current process and what improvement you suggests)</p> <p>Currently, the project comprises of bamboo and thatch. More materials and construction techniques might be explored. Renewable energy could not be explored due to lack of time. Renewable energy systems might be incorporated in the design. These additions might help in achieving more sustainable development goals through the design program.</p>	
<b>7</b>	<p><b>Target Group</b> (Industries, Groups, Individuals, Families, Students, etc) Please provide some detail about the end-user of the product, process, or service</p> <p>The design program is set to socio-economically uplift the fisherman community. The design consists of spaces accommodating daily life activities of all the members of the community.</p>	
<b>8</b>	<b>Team Members</b> (Names along with email address)	Aliza Inam alizainam04@gmail.com
<b>9</b>	<b>Supervisor Name</b> (along with email address)	Ar. Sarah Ather Khan architectsarahkhan@gmail.com
<b>10</b>	<b>Pictures</b>	<p>a. Masterplan b. Design details</p> <p>On next pages</p>

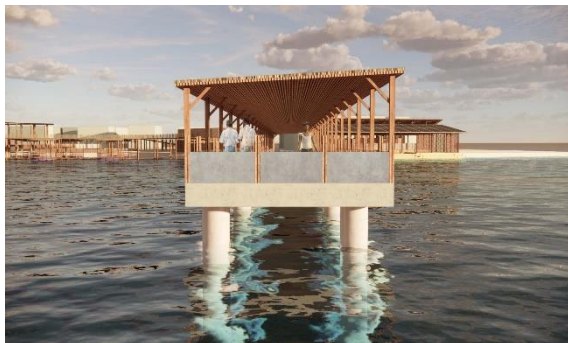
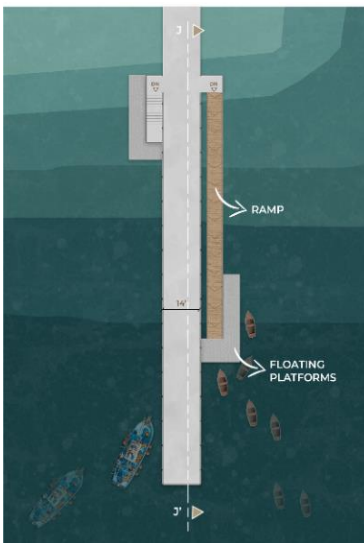
a. Masterplan:



**MASTER PLAN:**

b. Design details:

**JETTY REDESIGN**



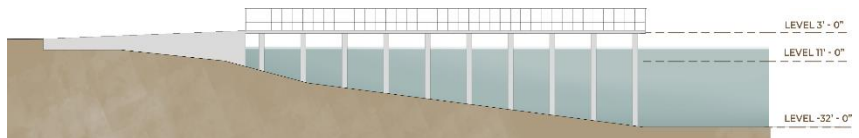
View to redesigned Jetty



Ramp joinery detail

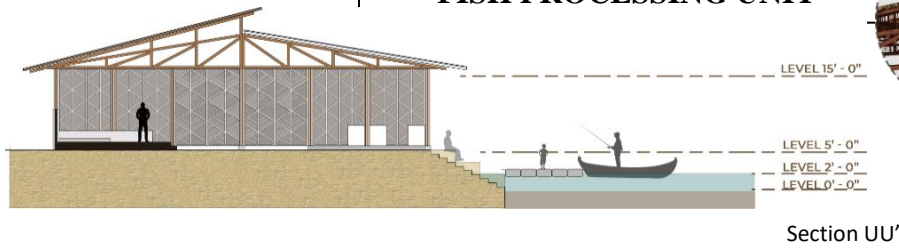


Openable door ramp



## FISH PROCESSING UNIT

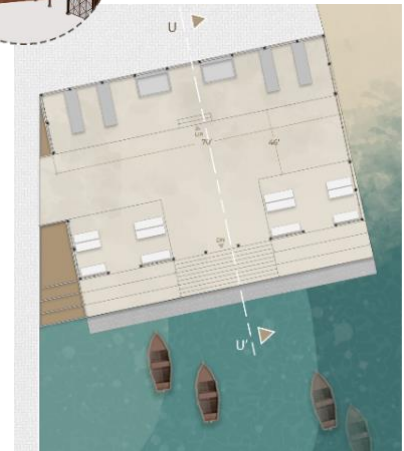
The truss is specially designed for the sea front processing unit allowing entrance of sunlight and wind.



View inside the processing unit

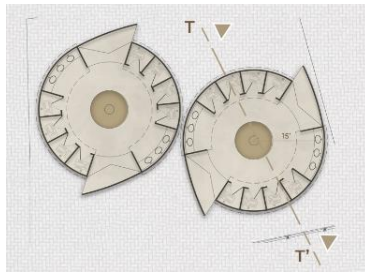


View towards the processing unit

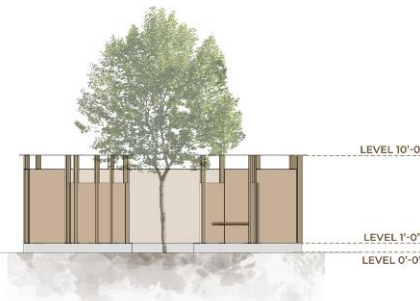


Plan

## TOILETS



Plan



Section TT'



View to the toilets

## FLOATING DINING



Exploded view



View to the floating

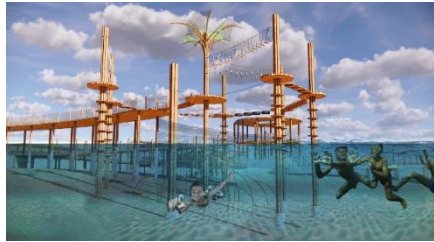


Detail of joinery of the floating platforms to the bamboo columns. The loose joint allows vertical movement of the floating platform with changing sea level.

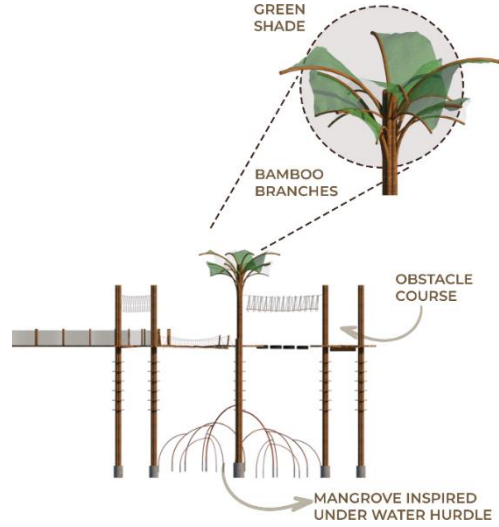
**OBSTACLE COURSE**



View to the obstacle

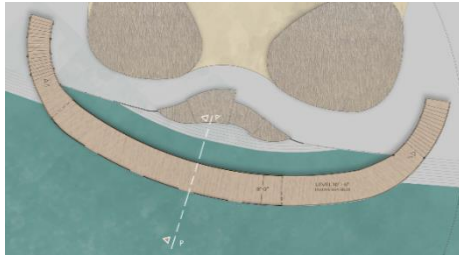


Under water view to the obstacle

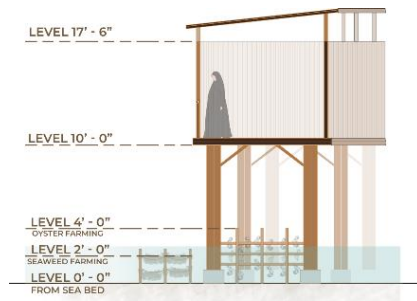


Obstacle course details

**PARDAH PAVILION**



Plan



Section PP'



View inside Pardah pavilion



View to the oyster farming area

**STORAGE + JUNGLE GYM**

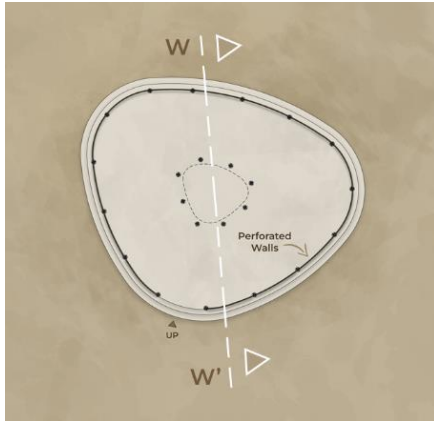


View to Storage + jungle gym



Plan

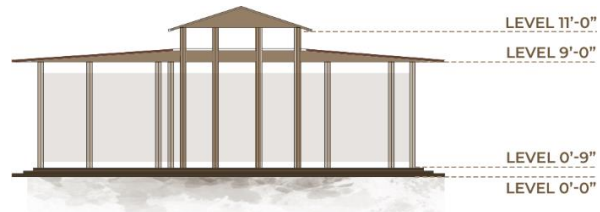
## WORKSHOP



Plan



View to the workshop area



Section WW'

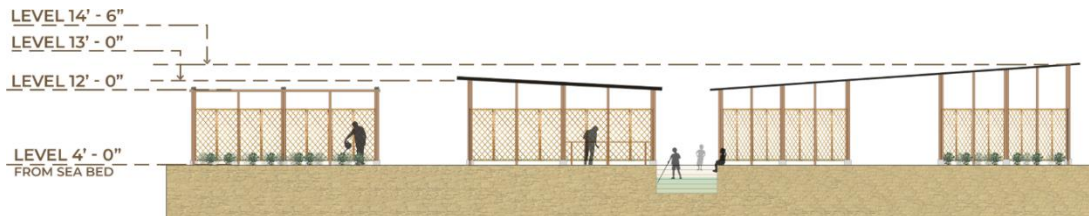
## NURSERY



View to the nursery



Plan



Section NN'