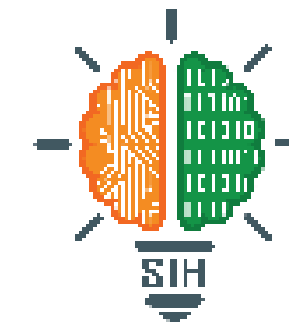




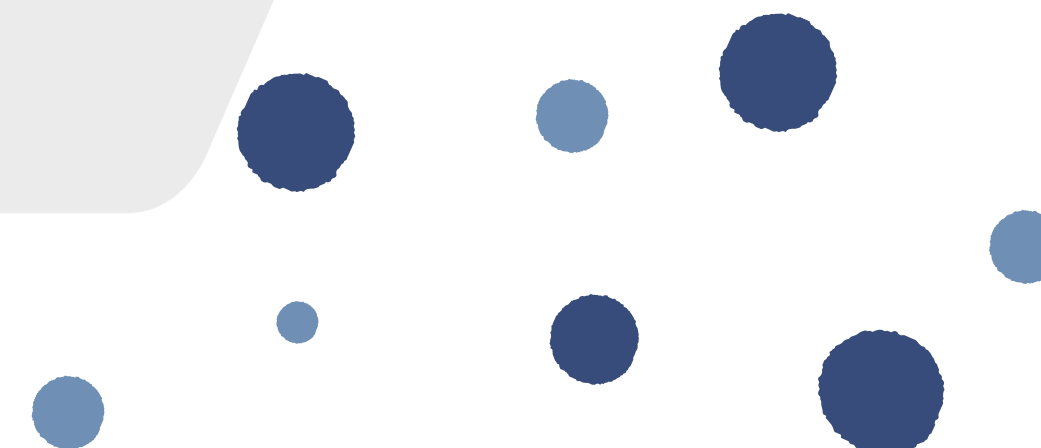
# SMART INDIA HACKATHON 2024



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2024

## Ocean Explorers: The Knowledge Expedition

- **Problem Statement ID** - SIH1660
- **Statement Title**- Interactive gamified approach to Ocean Literacy
- **Theme**- Smart Automation
- **PS Category**- Software
- **Team ID**- 2024T15
- **Team Name**-



# Ocean Explorers: The Knowledge Expedition

## GOAL



Innovative gamified educational tool to raise awareness about the ocean.

## PROBLEM



All generation requires engagement with nature, aiming to achieve ocean literacy.

## SOLUTION



Helps Learning

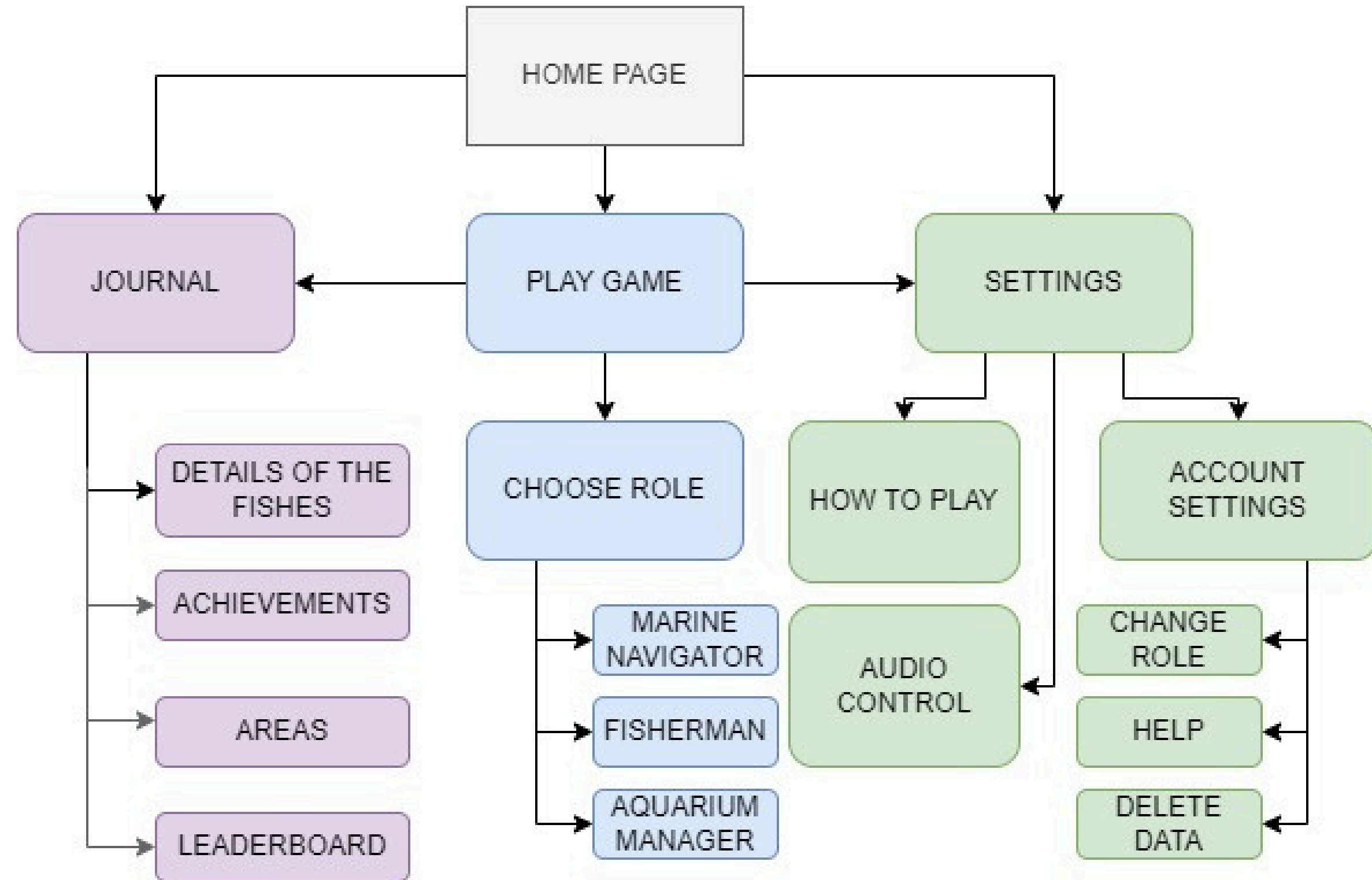


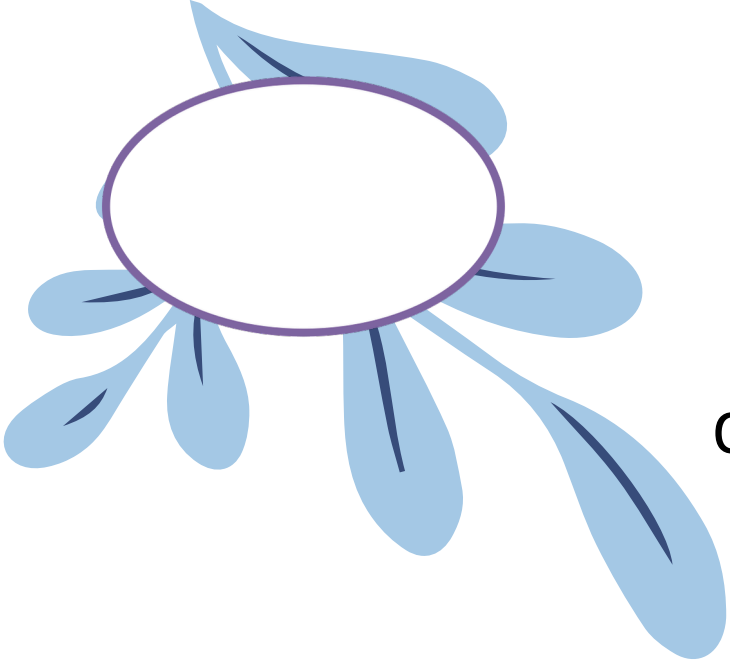
Motivate Ocean Protection



Geographical Data Usage

# TECHNICAL APPROACH





Specific in-game  
roles to represent  
different aspects of  
the ocean



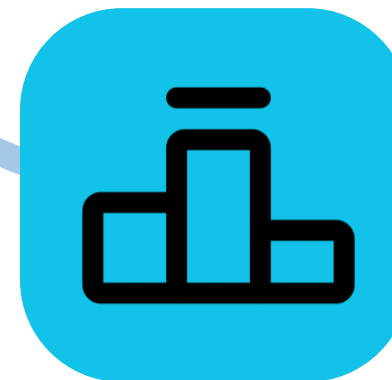
Allows tracking of  
fishing activities and  
journaling

Using satellite images  
and GIS to create a  
replica of costlines



Stimulation of real  
geographical locations  
and ocean ecosystems

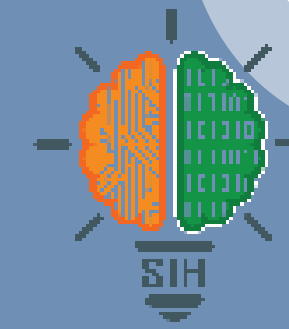
Queue system for  
leaderboard  
management



**CHALLENGES**

**FEASIBILITY**

# IMPACT AND BENEFITS



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**Targets All  
Age Groups**



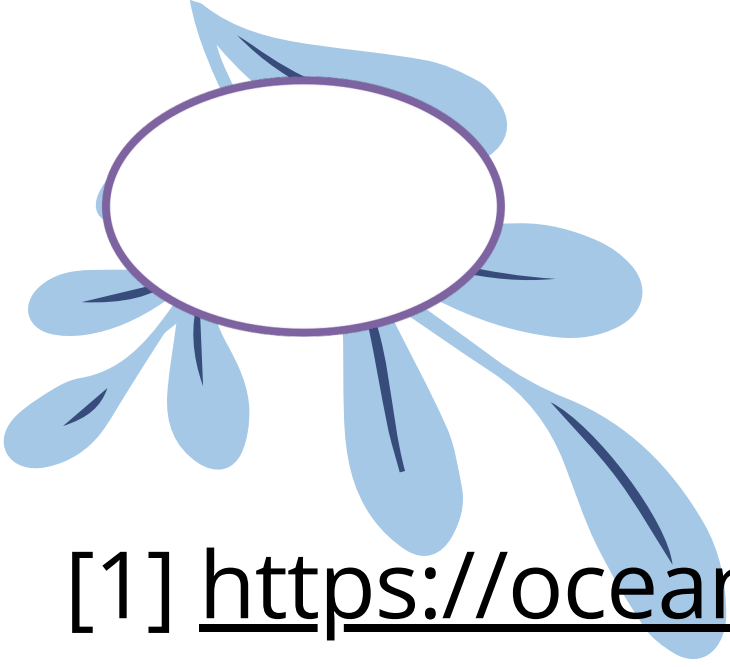
**Interactive  
while fostering  
Knowledge**



**In game milestones  
encourages learning**



**No prior knowledge  
required**



# RESEARCH AND REFERENCES



- [1] <https://oceandecade.org/challenges/>
- [2] <https://journals.plos.org/plosbiology/article?id=10.1371/journal.pbio.3002773>
- [3] [https://www.researchgate.net/figure/Map-showing-study-sites-major-fish-landing-centres-of-Mumbai-Maharashtra\\_fig1\\_330753719](https://www.researchgate.net/figure/Map-showing-study-sites-major-fish-landing-centres-of-Mumbai-Maharashtra_fig1_330753719)
- [4] <https://www.cmlre.gov.in>
- [5] [Marcus Oldenburg, Xaver Baur, Clara Schlaich, Occupational Risks and Challenges of Seafaring, \*Journal of Occupational Health\*, Volume 52, Issue 5, September 2010, Pages 249–256, <https://doi.org/10.1539/joh.K10004>](#)