TEAM ROCKET

COTSEYE:

A CROWDMAPPING SYSTEM

FOR THE MONITORING REPORT

OF THE CROWN-OF-THORNS STARFISH

(Acanthaster planci) IN SARANGANI BAY

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BACKGROUND



This section introduces the background and problem of the project found by the proponents.

The proceeding sections will discuss the objectives, scope and limitations, and significance of the project.

* BACKGROUND OF THE PROJECT

Crown-Of-Thorns Starfish (COTS)

is a species considered a significant threat to coral reefs.



BACKGROUND OF THE PROJECT

Such had caused population outbreaks for a long time that led to coral reef losses in the Indo-Pacific region.

The frequency and intensity of the COTS outbreak increased in the current times due to global warming.

BACKGROUND OF THE PROJECT

In the Philippines,

the COTS outbreak was recorded recent years ago at Apo Reef and other places such as Glan in Sarangani Bay.



STATEMENT OF THE PROBLEM

The SBPS-PAMB

recorded that the COTS caused an outbreak in Sarangani Bay earlier in 2007 and 2010.



* STATEMENT OF THE PROBLEM

36 out of 68

of barangays near the coast in Sarangani are still undergoing COTS outbreak, with marine protected areas located there heavily affected.



** STATEMENT OF THE PROBLEM

SBPS-PAMB Officers

control the situation in Sarangani Bay currently by holding a community collection where rice is offered and gathering COTS every weekend.



STATEMENT OF THE PROBLEM

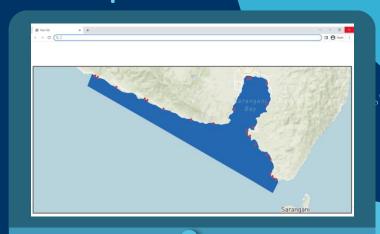
SBPS-PAMB Officers monitors the COTS outbreak in Sarangani Bay by mapping the information gathered. Yet, this is challenging.

There were difficulties in determining affected locations early, and the information still was stored in a spreadsheet.

* STATEMENT OF THE PROBLEM

In that case,

a web-based system is a must to collect and manage the information gathered regarding the COTS presence within Sarangani Bay.



GENERAL OBJECTIVES

To develop a crowdmapping system that will help collect and manage information about COTS presence in the waters of Sarangani Bay.

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To create

the COTS infestation based on the gathered information from contributors, SBPS-PAMO, and other concerned citizens;

To develop.

a feature that will allow the SBPS-PAMB Officers to verify the information before they are posted;

To enable

posting of announcements and other about helpful information infestation and intervention programs;

02.



Specific
Objectives

To map out

a web-based system that will let the contributors report COTS presence in Sarangani Bay coastal areas;

To display

status of COTS infestation in coastalo areas of Sarangani Bay based on the metrics laid out by SBPS-PAMB;

To generate

monitoring reports regarding the COTS infestation based on the information gathered from contributors.

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SCOPE AND LIMITATIONS

The capstone project will be developed only for SBPS-PAMB.

Such will highlight the development of a crowdmapping system for the monitoring report of the COTS in Sarangani Bay.

The needed information and resources regarding COTS will only be provided by the SBPS-PAMO Officers.

INITIAL PROTOTYPE

CONTRIBUTOR'S REGISTER PAGE



Register Landing Page



Register Page Message

CONTRIBUTOR'S MAIN PAGE



Login Page



Home Page



Postings Page



Main Menu Page

CONTRIBUTOR'S CAMERA PAGE



Camera Grant Access Page



Camera Landing Page

. CONTRIBUTOR'S CREATE REPORT PAGE



Create Report Page

CONTRIBUTOR'S PROFILE PAGE



Profile Edit Page



Profile Page Message

CONTRIBUTOR'S MY POSTS PAGE



My Posts Landing Page

CONTRIBUTOR'S LOCATIONS PAGE

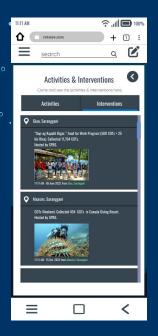


Locations Landing Page



Status Page

CONTRIBUTOR'S ACTIVITIES & INTERVENTIONS PAGE



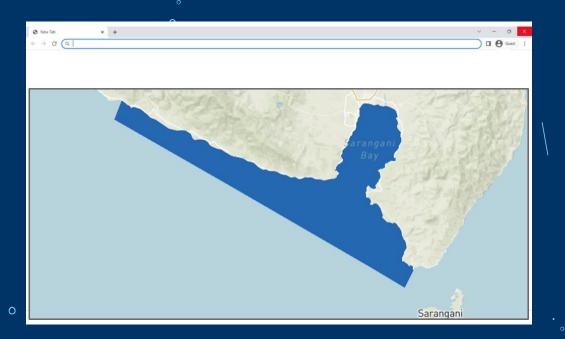
Activities & Interventions Page

CONTRIBUTOR'S ANNOUNCEMENTS PAGE



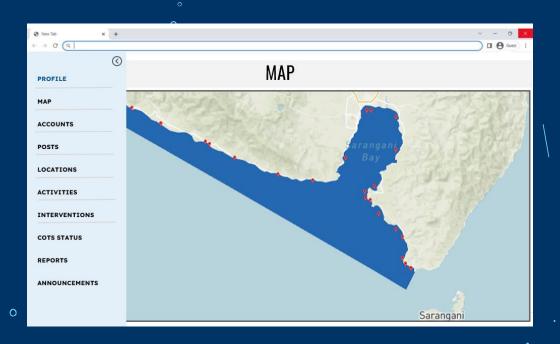
Announcements Page

ADMIN'S MAIN PAGE



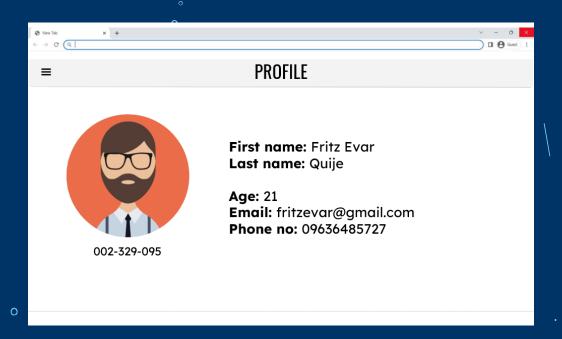
Home Page

ADMIN'S MAIN PAGE



Main Menu Page

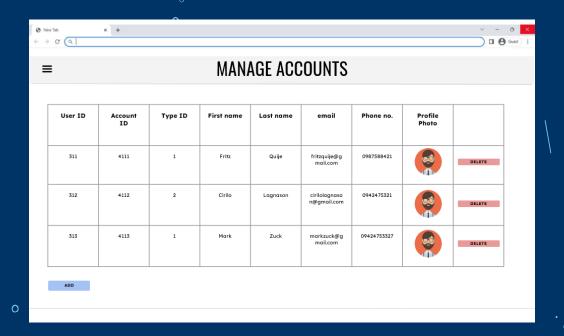
ADMIN'S PROFILE PAGE



Profile Landing Page

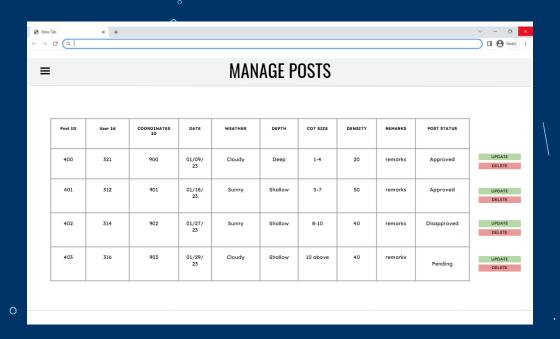
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ADMIN'S MANAGE ACCOUNTS PAGE



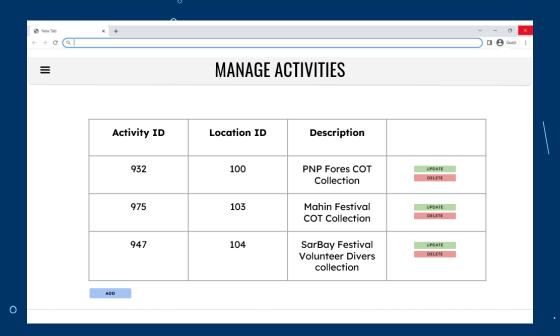
Accounts Landing Page

ADMIN'S MANAGE POSTS PAGE



Posts Landing Page

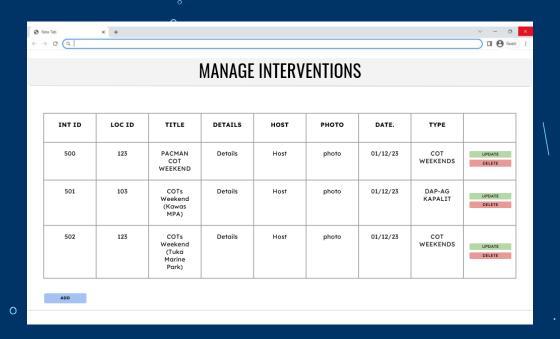
ADMIN'S MANAGE ACTIVITIES PAGE



Activities Landing Page

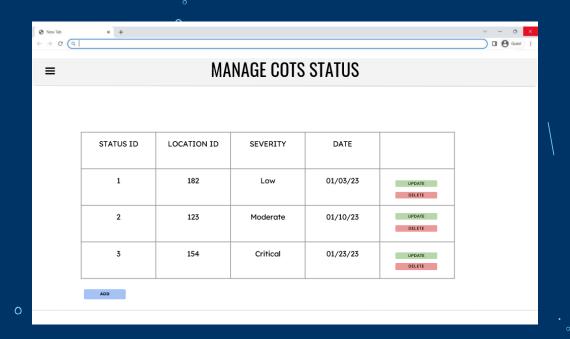
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ADMIN'S MANAGE INTERVENTIONS PAGE



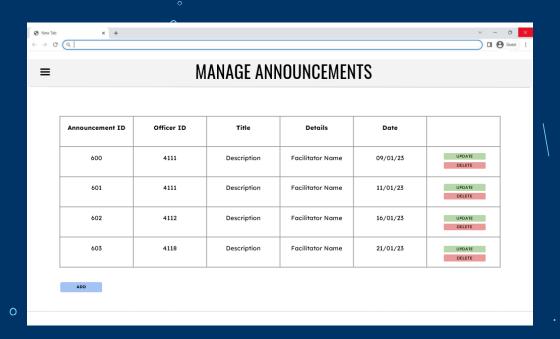
Interventions Landing Page

. ADMIN'S MANAGE COTS STATUS PAGE



COTS Status Landing Page

ADMIN'S MANAGE ANNOUNCEMENTS PAGE



Announcements Landing Page

SIGNIFICANCE OF THE PROJECT

the project will assist them to collect and manage information regarding the COTS presence in Sarangani Bay via webbased system.



SBPS-PAMB

the project will provide them with access to information regarding the COTS presence in Sarangani Bay via web-based system.



Community

SIGNIFICANCE OF THE PROJECT

the project will supply them with additional information in the fulfillment of their research and studies related to the COTS presence in Sarangani Bay.



Future Researchers

the project will guide them on their political declaration and judgment regarding the COTS outbreak in Sarangani Bay.



Policy Makers

UPDATES & PRELIMINARY RESULTS

UPDATES & PRELIMINARY RESULTS •°

Work on the capstone project is currently in progress. The proponents are currently working to implement the remarks and recommendations made by the panelists during the project's defense.

UPDATES & PRELIMINARY RESULTS .º

Currently, the proponents are using the Kanban Approach throughout the development of the system. Visual Studio Code, HTML, JavaScript, CSS, Python, PHP, MySQL, and Google Maps API will be used to program the web-based crowdmapping system.

UPDATES & PRELIMINARY RESULTS ...

The system will encourage the community to report COTS presence in Sarangani Bay coastal areas, view the map and the infestation status of each area, and explore activities, interventions, announcements, and guidelines made by the SBPS-PAMB Officers.