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| SDV602 ProjectMilestone 1 | |
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# Introduction

With the expansion of human habitant as well as climate changing effect, the population of many species are on the declining trend which ultimately would lead to the collapse of the whole eco-system. While it is impossible to stop the process, we could slow down the process by providing further care for the animal kingdom especially the one at the top of the food chain such as White shark.

A shark jumping out of the water

Description automatically generated with medium confidence

While White shark or Great White is portraited as an apex predator from many movies, their population is on the brink of declining due to unmanaged incidental catch and directed sport or quasi-commercial fishing for trophies. According to the Department of Conservation, White sharks are classified as Vulnerable globally by the IUCN Red List of Threatened Species and protected under Wildlife Act 1953, Fisheries Act 1996.

Genetic and satellite tagging is the primary method of tracking movement and controlling the population, but it is lacking in specific individuals' conditions and location. For more details, in the White Sharks article from the Department of Conservation, some sharks spend at least 5-7 months north of New Zealand before returning to where they were tagged. Furthermore, it is also worth mentioning that no movement between New Zealand tagging locations or between the Chatham Islands and the South Island's east coast has been documented.

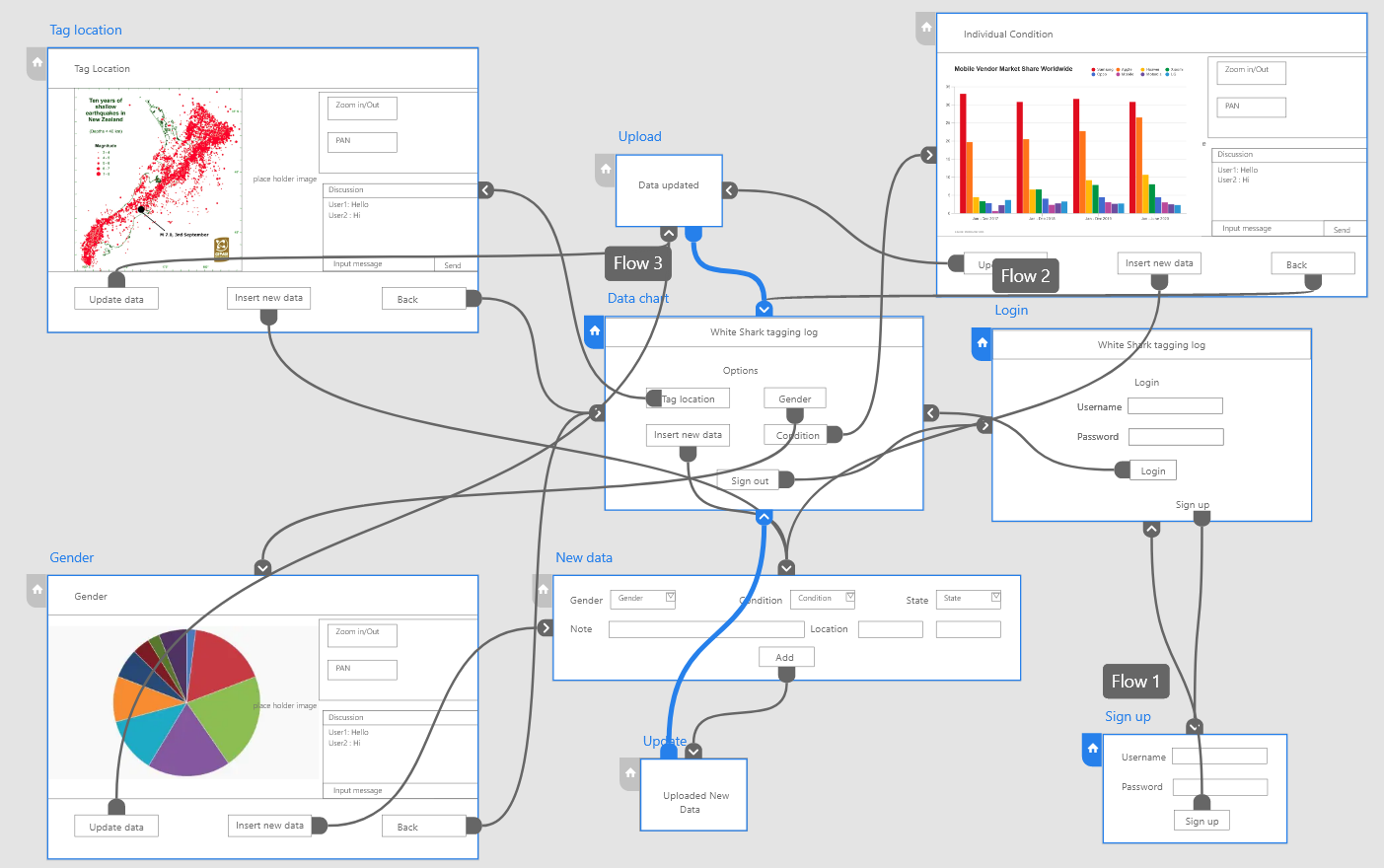
A white shark tracking application would be helpful to record the white sharks sighting near those locations and around New Zealand to increase the effort in reserve their population.

# Screen Design

The application will have 7 screens:

* Login: this is the first screen that will appear, and it will require user to enter username and password before access the application. Users also have the sign-up option if it is their first time accessing the application which will open Sign up screen. Only with correct match of password and credential, users can proceed to another screen beside sign-up.
* Sign-up: The screen will have 4 available fields (username, password, confirm password, email address) for users to complete in order to create a valid login credential. The information needs to follow certain criteria such over 8 character long or no special character.
* Menu: after providing correct login details, menu screen would present 5 buttons (Insert, Gender, Location, Feature and Sign-out) for users to choose from. First would be Sign-out of the current account
* Gender: The first data screen which will display the pie chart and present the ratio between male and female sharks sighting. The data might be able to be filtered by year or area. The screen also includes zoom and pan buttons for changing the view, chat box and chat log for discussing purpose as well as Insert new data, update database and Return buttons. Those setting is the same for other DES.
* Location: The second data screen which will display the sighting location and present on New Zealand map to indicate hotspot or any important location. The data might be able to be filtered by year.
* Feature: The third data screen which will display the histogram chart to show the number of sharks in different categories such as adult, immature ... The data might be able to be filtered by year or area
* Insert: This screen allows users to enter new data entry to the database then return to Menu screen and presenting up-to-date data.

Creating mockup application in Adobe XD



Story board

## Login

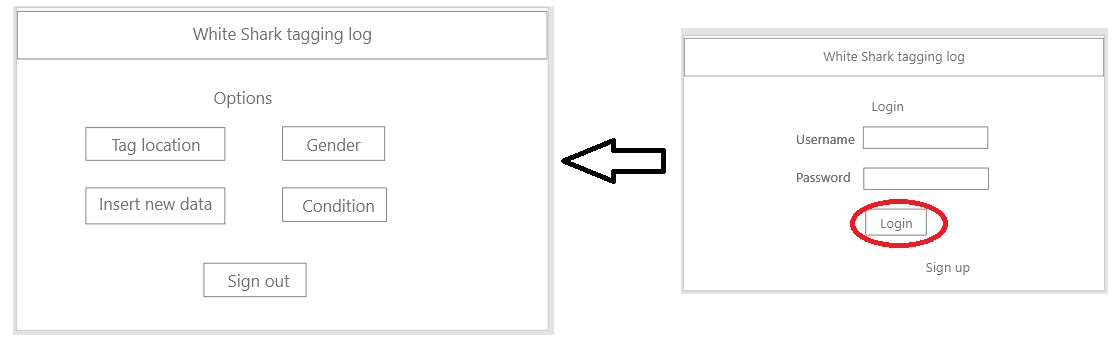
Log in with wrong username or password

Click on the Sign-Up buttonGraphical user interface, application, Word

Description automatically generated

## 

Log in with correct username and password



|  |  |  |  |
| --- | --- | --- | --- |
| Action/Display | Describe | Input | Output |
| Click on Sign up button |  | User |  |
|  |  |  |  |
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Graphical user interface, text, application

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# Reference:

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