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**APIIT SRI LANKA**

**WEB DEVELOPMENT AND OPERATING SYSTEMS - 1**

**COMP40004**

**Level 4**

**Assignment Type:** Individual Coursework

**Module Lecturer:** Miss Dilani Lunugalage

**Name:** Januki Ranasinghe

**CB Number:** CB011458

**Batch Code:** CF22A1COM/SE/CS

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**Hand Out Date:** 31<sup>st</sup> March 2023

**Hand in Date:** 31<sup>st</sup> May 2023

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## ACKNOWLEDGEMENT

I would like to take this moment to express my gratitude to Ms.Dilani Lunugalage for her invaluable guidance and support throughout the development of the TurtleBliss website.

## 1. INTRODUCTION

TurtleBliss is a website committed to increasing public awareness of the critical problem of turtle population protection. The website, built using HTML and CSS, has seven primary pages that aim to inform visitors (locals & tourists) about the need to protect these amazing species and provide practical information on how individuals may help with their conservation.

**Home Page** - This is the home page of the website.

**About Us Page** – This page consists of our goal and vision, and it also includes contact information for getting in touch with us.

**Gallery Page** – This Page Showcase some of the pictures of the moments in turtle hatcheries in Sri Lanka.

**Turtle Categories Page** - This page consists of details about the 5 turtle categories in Sri Lanka.

**Threats Page** - This page consists of details about the threats for turtles, the consequences of the threats, and how we can prevent them.

**Hikkaduwa Turtle Hatchery Page** - This page consists of details about the Hikkaduwa Turtle Hatchery.

**Kosgoda Turtle Hatchery Page** - This page consists of details about the Kosgoda Turtle Hatchery.

**Bentota Turtle Hatchery Page** – This page consists of details about the Bentota Turtle Hatchery.

**Donate & Store Page** – Through this webpage, visitors can make donations and acquire various merchandise to support the cause of turtle conservation.

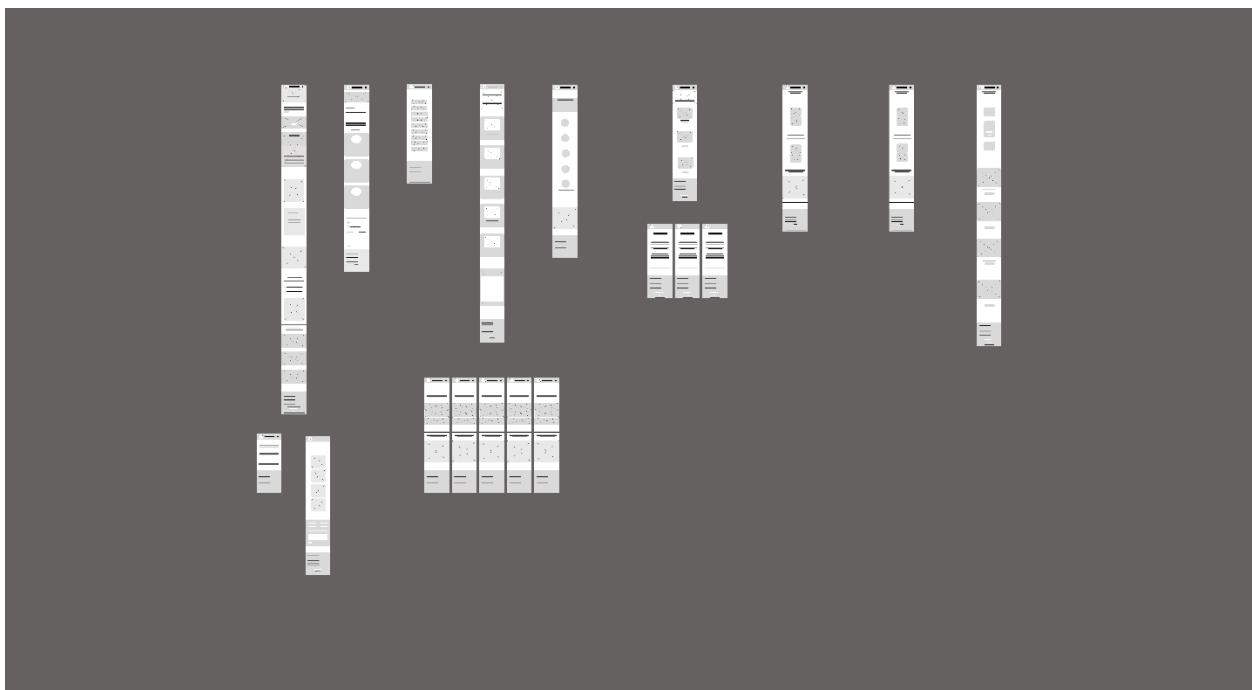
## MEDIA QUERIES – Screen Size

Use the following screen sizes for optimal display:

**Mobile Screen: 400px**

## 2. WIREFRAMES

MOBILE



DESKTOP



### 3. DESIGNS

#### DESKTOP

**TurtleBliss**

Home Animals Gallery Turtle Categories Hikkaduwa Hatchery Threats Other Turtle Hatcheries Donate & Store

**Turtles' Hatch In The Irreplaceable Paradise, Sri Lanka.**

"From Nest to Sea: Protecting Sri Lanka's Turtles One Hatchling at a Time"

"Be a Guardian of the Sea" Volunteer at Sri Lanka's Turtle Hatcheries

**THE BEST TIME PERIOD FOR TURTLE WATCHING**

In Sri Lanka, different species of turtles are found along the coast throughout the year. The best time periods for watching turtles are during the nesting season. As a rule, species specific information for the hatching period is available on the website.

**REKAWA BEACH**

Rekawa Beach is located in the southern coastal area of Sri Lanka. This year is known to be a highly active nesting season.

**HIKKADUWA TURTLE BEACH**

Hikkaduwa Beach is located in the southern coastal area of Sri Lanka. This year is known to be a highly active nesting season.

**THINGS YOU SHOULD AVOID DOING AT A TURTLE HATCHERY**

When turtle-watching, it's important to respect and protect these creatures and their natural environment:

- Disturbing nesting sites
- Touching nesting turtles
- Feeding turtles
- Disturbing hatchlings
- Disturbing turtle nests

**#visitsrilanka #visitsrilankasouth**

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**GET INVOLVED!**

Volunteering at a turtle hatchery is a wonderful opportunity to actively participate in sea turtle conservation efforts. By volunteering at a turtle hatchery, you can contribute to the preservation of these majestic creatures and their fragile habitats.

First Name

Nationality

E-mail

Phone

Address

Say Something Here...






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## About TurtleBliss

**Our Mission**  
Our mission at the turtle hatchery is to protect and conserve sea turtles and their habitats. We are dedicated to ensuring the survival and well-being of these incredible creatures, for future generations. Through our efforts, we aim to increase awareness about the importance of sea turtle conservation and promote sustainable practices that help preserve their natural environment.

**Our Vision**  
Our vision is to create a world where sea turtles thrive in healthy and protected habitats. We envision vibrant coastal ecosystems where sea turtles play their essential roles as keystone species, maintaining the balance of marine biodiversity. We strive for a future where sea turtles are no longer endangered but instead flourish in their natural environments.

### WHY CHOOSE SRI LANKA?



**High Biodiversity**  
Sri Lanka is home to five out of the seven species of marine turtles found globally, including the endangered green turtle, loggerhead turtle, leatherback turtle, hawksbill turtle, and olive ridley turtle. The presence of multiple turtle species highlights the country's rich biodiversity and the importance of conserving their populations.



**Community Participation**  
Local communities in Sri Lanka actively participate in turtle conservation efforts. They are involved in nest monitoring, turtle rescue operations, beach cleanups, and the maintenance of turtle hatcheries. This community engagement fosters a sense of ownership and responsibility, ensuring the long-term success of turtle conservation initiatives.



**Abundance Of Nesting Sites**  
Sri Lanka boasts a significant number of nesting sites along its coastline, attracting turtles for nesting and egg laying. Beaches such as Rekawa, Kosgoda, and Pigeon Island serve as crucial nesting grounds for marine turtles. Protecting and managing these nesting sites is vital for ensuring the survival of turtle populations.

### CONNECT WITH US.

#### CONTACT

We value your input and strive to provide prompt and helpful assistance.

E-mail: [inquiries@turtlebliss.lk](mailto:inquiries@turtlebliss.lk)

Phone: 011-XXX-XXXX

First Name:

Last Name:

E-mail:

Phone:

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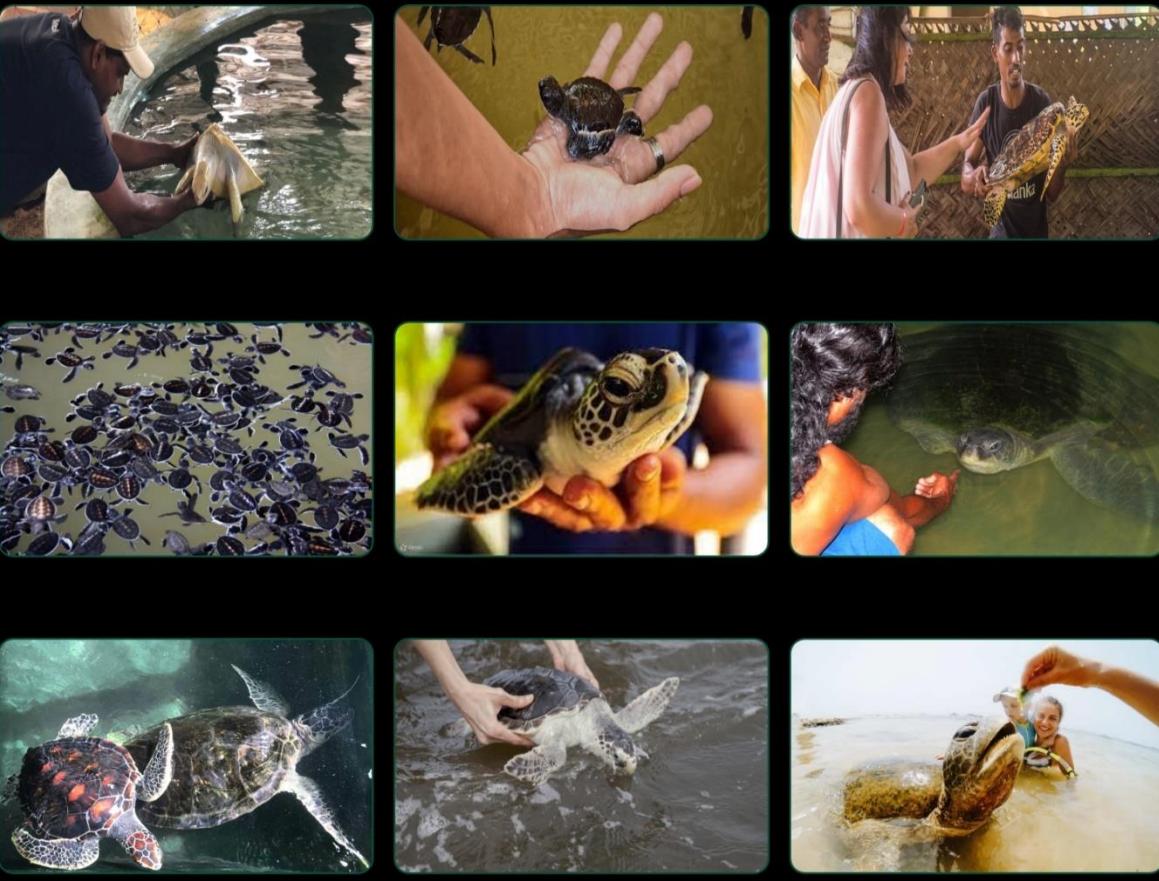
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"Immerse yourself in the rich tapestry of Sri Lanka's turtle diversity, an extraordinary testament to the island's natural wonders."



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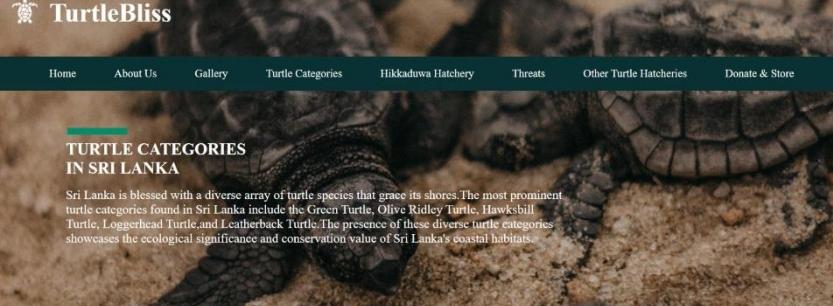
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### TURTLE CATEGORIES IN SRI LANKA

Sri Lanka is blessed with a diverse array of turtle species that grace its shores. The most prominent turtle categories found in Sri Lanka include the Green Turtle, Olive Ridley Turtle, Hawksbill Turtle, Loggerhead Turtle, and Leatherback Turtle. The presence of these diverse turtle categories showcases the ecological significance and conservation value of Sri Lanka's coastal habitats.




Green Sea Turtle  
*(Chelonia mydas)*



Leatherback Sea Turtle  
*(Dermochelys coriacea)*



Loggerhead Sea Turtle  
*(Caretta caretta)*



Hawksbill Sea Turtle  
*(Eretmochelys imbricata)*



Olive Ridley Sea Turtle  
*(Lepidochelys olivacea)*

### A Summary About The Turtles...

Name of the turtle	Size of the turtle	Where it is found	Life span
Green Sea Turtle	Length- About 1m Weight- About 250kg	Kosgoda, Induruwa, Akurala, Mavela, Ambalantota, Yala, Bundala.	About 70 Years
Leatherback Sea Turtle	Length- About 1.8m to 2m Weight- About 900kg	Kosgoda, Induruwa, Mavela, Usangoda, Ambalantota, Yala, Bundala.	About 45 to 50 Years
Loggerhead Sea Turtle	Length- About 1m Weight- About 170kg to 200kg	Bundala	About 70 to 80 Years
Hawksbill Sea Turtle	Length- About 90cm Weight- About 50kg to 70kg	Kosgoda, Bundala	About 50 to 60 Years
Olive Ridley Sea Turtle	Length- About 65cm Weight- About 35kg to 45kg	Kosgoda, Induruwa, Bundala, Yala, Kandakuliya	About 50 Years

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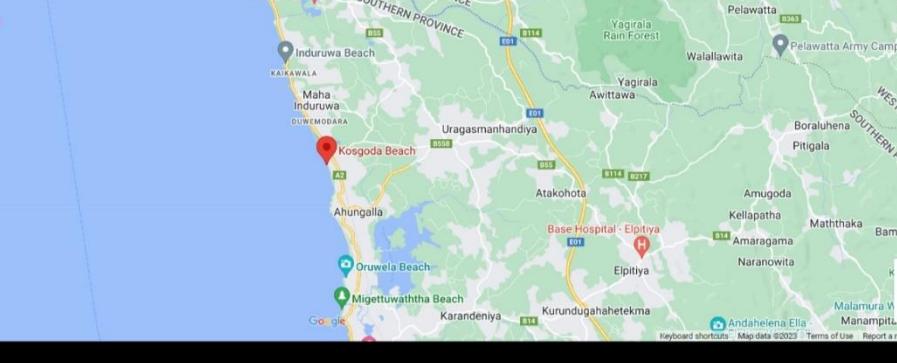
## Green Sea Turtle (*Chelonia mydas*)

The Green Sea Turtle is the most commonly found turtle category in Sri Lankan waters. Growing to a maximum length of 1m and weighing about 250kg, an adult female can lay between 120 to 40 eggs at a time. Green sea Turtle can be recognized from its flattened body covered by a tear shaped shell that is blackish grey in colour, a smaller head than the loggerhead turtle and a pair of large paddle like flippers. They are found mainly thriving in the tropical waters of the ocean, feeding only on marine vegetation such as algae and sea grass, returning to the shore to lay eggs.



### Location Of The Highest Green Sea Turtle Population Area In Sri Lanka

Kosgoda Beach  
82MG+JV4, Unnamed Road, Kosgoda  
 4.8 ★★★★★ 20 reviews  
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## Leatherback Sea Turtle (*Dermochelys coriacea*)

The Leatherback Turtle, is the largest of the 5 species in Sri Lanka and sadly, is on the brink of extinction. Growing to a maximum length of 1.8m-2m and weighing about 900kg. It can be recognized by its large grayish-black teardrop shaped body covered by skin and oily flesh and the seven prominent ridges that run from the front to the back of its body. Its hydrodynamic body shape along with a large pair of front flippers helps it to move strongly through the water, where it feeds mainly on jellyfish and other small sea animals.

### Location Of The Highest Leatherback Turtle Population Area In Sri Lanka



Kosgoda Beach  
82MG+JV4, Unnamed Road, Kosgoda    Directions 

4.8 ★★★★★ 20 reviews    View larger map



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## Loggerhead Sea Turtle (*Caretta caretta*)

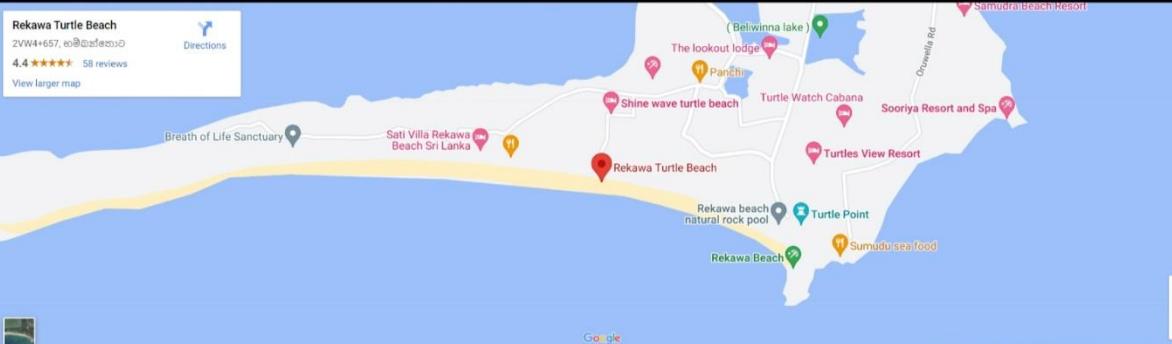
The Loggerhead Turtles are usually red and brown in colour and as their name suggests, is easily identifiable because of their large head! Growing to a maximum size of 1m and weighing about 170 to 200kg. They are found mostly in salt water sometimes hundreds of miles out in the ocean and also in estuarine habitats such as bays, lagoons and salt marshes with females coming ashore momentarily for nesting. Being carnivores it feeds mainly on marine invertebrates, especially hard shelled crustaceans, which it devours with its powerful jaws.



### Location Of The Highest Loggerhead Turtle Population Area In Sri Lanka

**Rekawa Turtle Beach**  
2VW4+657, රෙකාව ප්‍රදේශය  
4.4 ★★★★★ 58 reviews  
[View larger map](#)

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## Hawksbill Sea Turtle (*Eretmochelys imbricata*)

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The Hawksbill Turtle is a critically endangered turtle as a result of poachers seeking its beautiful 'tortoise-shell', which is commercially valuable. Hawksbill Turtles are a bit rarer than the Green Turtle. Comparatively, it is much smaller, reaching a maximum length of 90cm and weighing about 50kg to 70kg. In appearance it is dark golden brown in colour with reddish orange streaks, its most distinctive feature being the thick scutes that make up its hard upper shell. It has an elongated head that tapers into a pointed hawk-like beak. Its habitat is mainly coral reefs and shallow lagoons where it feeds on sponges, fish, sea anemones and jellyfish amongst others.

### Location Of The Highest Hawksbill Turtle Population Area In Sri Lanka

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## Olive Ridley Sea Turtle (*Lepidochelys olivacea*)

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The smallest species found in the country. The Olive Ridley reaches a maximum size of 65cm and weighs just 35kg to 45kg. It is relatively small in size with a black heart shaped upper exoskeleton that turns olive green in adulthood. The Olive Ridley, known to be the sea turtle found most abundantly comes ashore in a unique phenomenon known as "arribada" where large groups of females come all at once to nest. The Olive Ridley feeds mainly on jellyfish, shrimp, mollusks and fish.

### Location Of The Highest Olive Ridley Turtle Population Area In Sri Lanka


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## HIKKADUWA HATCHERY

Situated a few kilometres north of the main Hikkaduwa town lies the Sea Turtle Hatchery and Rescue Centre, a centre with the aim of conserving some of the endangered species of turtles in the world. It is just one of many turtle hatcheries in the southern coast of the island. Initially starting as a community project to help protect the biodiversity of the southern coast, it is now a fully-fledged hatchery and rescue centre with dedicated teams that work round the clock to study, care and protect several turtle species.

EXCITING THINGS TO DISCOVER AND EXPERIENCE AT THIS DESTINATION...



Turtle Hatchery Tour



Turtle Releases



Education And Awareness



Volunteer Opportunities



Snorkeling And Diving With The Turtles

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### THE LOCATION OF HIKKADUWA TURTLE HATCHERY

Sea Turtle Hatchery & Rescue ...  
A2, Hikkaduwa  
4.0 ⭐⭐⭐⭐⭐ 244 reviews  
[View larger map](#)



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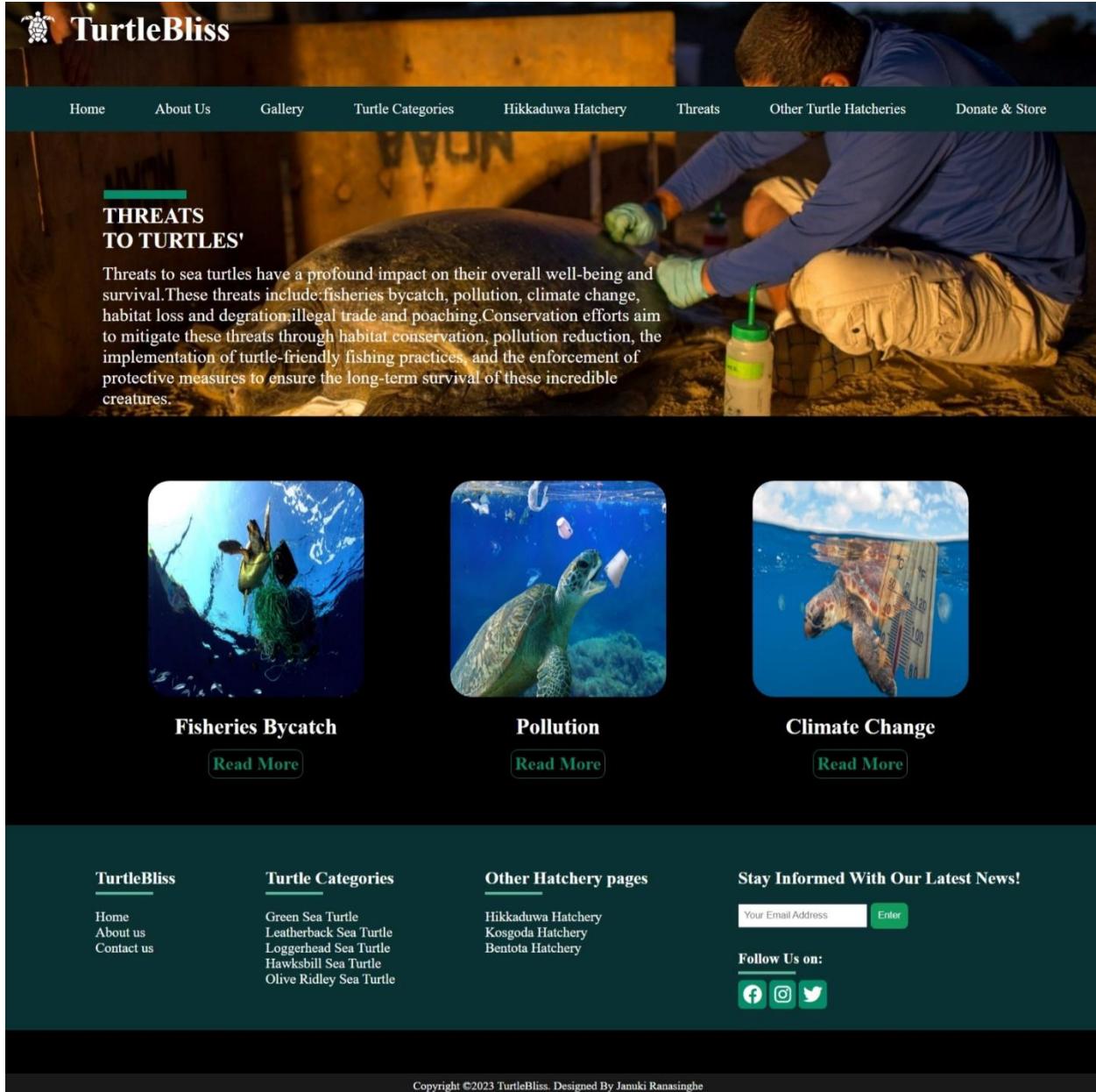
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## THREATS TO TURTLES'

Threats to sea turtles have a profound impact on their overall well-being and survival. These threats include fisheries bycatch, pollution, climate change, habitat loss and degradation, illegal trade and poaching. Conservation efforts aim to mitigate these threats through habitat conservation, pollution reduction, the implementation of turtle-friendly fishing practices, and the enforcement of protective measures to ensure the long-term survival of these incredible creatures.



**Fisheries Bycatch**

[Read More](#)



**Pollution**

[Read More](#)



**Climate Change**

[Read More](#)

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## Fisheries Bycatch

Fisheries bycatch occurs when sea turtles become unintentionally caught in fishing gear during fishing operations targeting other species. There are various ways in which fisheries bycatch happens. One common scenario is the use of longline fishing, where a main fishing line with numerous baited hooks is deployed. Sea turtles, attracted to the bait, can accidentally bite or get hooked, becoming entangled in the lines. Gillnets, which are large mesh nets suspended vertically in the water, can also entrap turtles as they swim through them. Trawling, where a large net is dragged along the seabed or through the water column, can accidentally capture turtles that are in the vicinity of the fishing grounds. In some cases, turtles may also become entangled in fishing gear that has been abandoned or lost at sea, known as ghost gear.

### CONSEQUENCES OF THE SITUATION

Bycatch can lead to injuries, drowning, and death for sea turtles. The use of longline fishing techniques, gillnets, trawls, and other non-selective gear increases the likelihood of interactions between turtles and fishing operations. The scale of the impact is substantial, with thousands of sea turtles falling victim to bycatch annually. This not only affects individual turtles but also has profound implications for the conservation of their populations.

### HOW CAN WE PREVENT THE SITUATION

Efforts to mitigate fisheries bycatch include the development and implementation of turtle-friendly fishing practices, such as the use of circle hooks and turtle excluder devices (TEDs), which allow turtles to escape from fishing gear. Collaboration between fisheries, scientists, and conservation organizations is crucial to minimize the impact of bycatch and ensure the long-term survival of sea turtles in our oceans.

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## Pollution

Pollution poses a significant threat to sea turtles, impacting their health, habitat, and overall survival. These pollution forms include: plastic debris, Chemical pollution, including oil spills, agricultural runoff, and industrial waste, etc.

**CONSEQUENCES OF THE SITUATION**

The consequences of pollution on turtles can be devastating. Plastic pollution, for instance, poses a grave threat as turtles often mistake plastic debris for food, leading to ingestion and internal injuries. Blockages in their digestive systems can cause malnutrition, reduced fitness, and even death. Entanglement in discarded fishing nets and other debris can result in physical injuries, impaired mobility, and drowning. Chemical pollution from oil spills, agricultural runoff, and industrial waste can contaminate their habitats, impacting their reproductive abilities, immune systems, and overall health. Polluted coastal waters can harm the seagrass beds and coral reefs that provide crucial feeding and nesting grounds for turtles. These adverse effects disrupt their life cycles, decrease their reproductive success, and reduce their population numbers.

**HOW CAN WE PREVENT THE SITUATION**

Efforts to combat pollution and protect sea turtles include promoting recycling and waste reduction, raising awareness about the impacts of plastic pollution, implementing stricter regulations on waste disposal, and supporting clean-up initiatives. It is crucial to address pollution to safeguard the health of sea turtles and the marine ecosystems they rely on for their survival.

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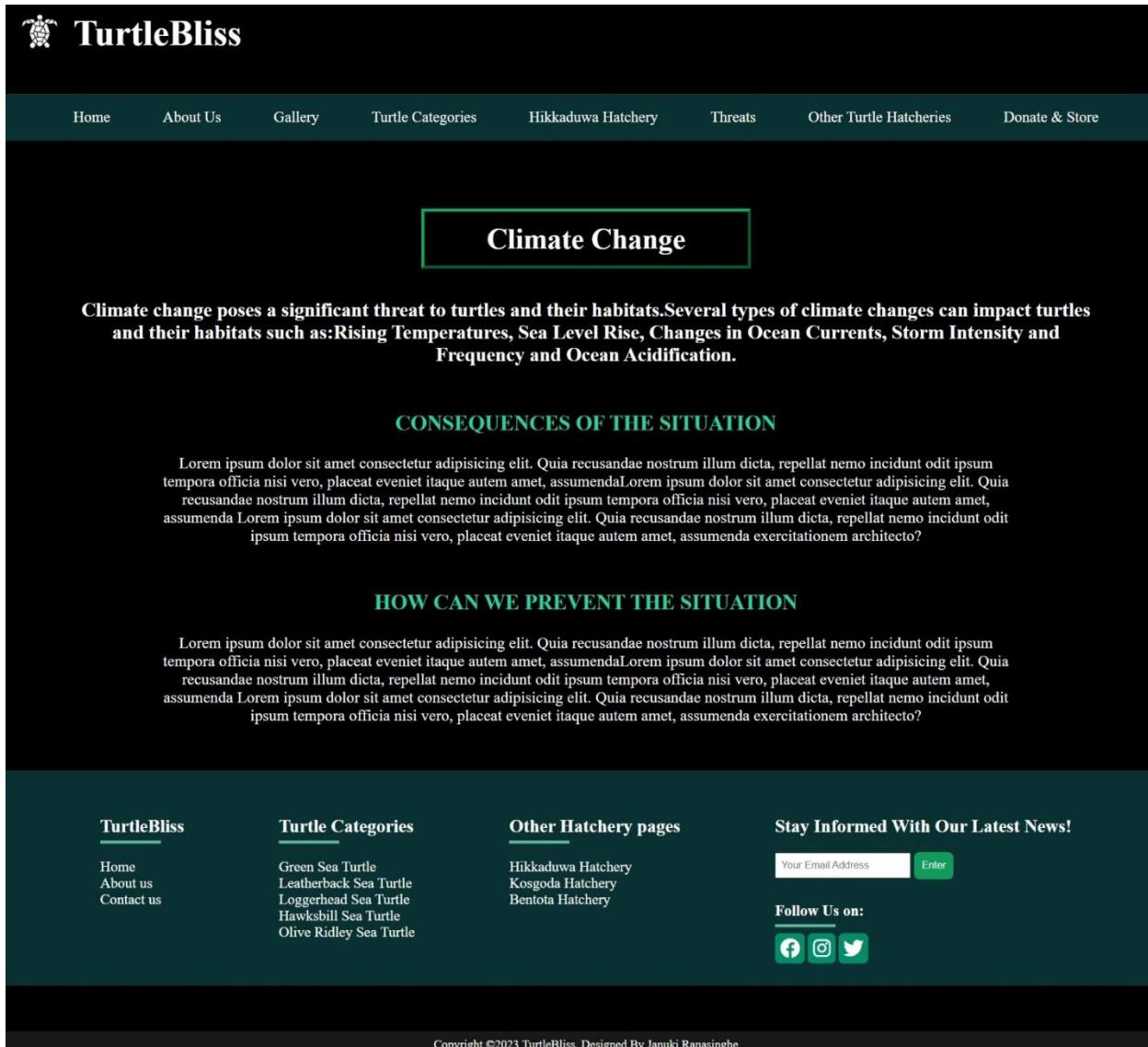
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[!\[\]\(c830d25adbfdb108d031d87a364b6cb1\_img.jpg\)](#)

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The screenshot shows a dark-themed website for "TurtleBliss". At the top, there's a navigation bar with links: Home, About Us, Gallery, Turtle Categories, Hikkaduwa Hatchery, Threats, Other Turtle Hatcheries, and Donate & Store. Below the navigation, a green-bordered box contains the title "Climate Change". Underneath, a paragraph discusses the threat of climate change to turtles. A section titled "CONSEQUENCES OF THE SITUATION" follows, containing placeholder text. Another section titled "HOW CAN WE PREVENT THE SITUATION" also has placeholder text. At the bottom, there's a footer with links for "TurtleBliss", "Turtle Categories", "Other Hatchery pages", and a newsletter sign-up form. Social media icons for Facebook, Instagram, and Twitter are also present.

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**Climate Change**

Climate change poses a significant threat to turtles and their habitats. Several types of climate changes can impact turtles and their habitats such as: Rising Temperatures, Sea Level Rise, Changes in Ocean Currents, Storm Intensity and Frequency and Ocean Acidification.

**CONSEQUENCES OF THE SITUATION**

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**HOW CAN WE PREVENT THE SITUATION**

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## KOSGODA TURTLE HATCHERY

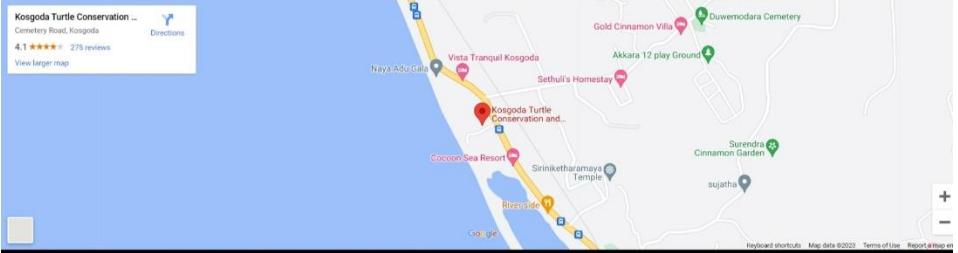
The Kosgoda Turtle Hatchery is a renowned conservation center located in the beautiful coastal town of Kosgoda, Sri Lanka. This hatchery plays a vital role in the protection and preservation of sea turtles, contributing to the conservation efforts of these magnificent creatures. The dedicated staff and volunteers at the Kosgoda Turtle Hatchery work tirelessly to ensure the survival and growth of these turtles by collecting and incubating eggs, protecting nests, and releasing hatchlings into the ocean.



Visitors to the hatchery can learn about the life cycle of sea turtles, observe the adorable baby turtles, and even participate in the exciting experience of releasing them back into the sea. The Kosgoda Turtle Hatchery serves as a crucial educational center, raising awareness about the importance of sea turtle conservation and the need to protect their natural habitats. Through their efforts, the hatchery not only helps safeguard these remarkable creatures but also contributes to the overall biodiversity and ecological balance of the marine environment.



### The Location Of Kosgoda Turtle Hatchery



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## BENTOTA TURTLE HATCHERY

The Bentota Turtle Hatchery, located in the coastal town of Bentota in Sri Lanka, is a renowned conservation project dedicated to protecting sea turtles and their habitats. The hatchery serves as a safe haven for sea turtle eggs, providing a controlled environment where they can hatch and be released into the ocean. The hatchery plays a crucial role in the conservation of several turtle species, including the Green Sea Turtle, Hawksbill Turtle, Olive Ridley Turtle, and Loggerhead Turtle. At the Bentota Turtle Hatchery, trained staff and volunteers work tirelessly to collect turtle eggs from vulnerable nesting sites along the coast. These eggs are carefully incubated under optimal conditions, ensuring their healthy development. Once the hatchlings emerge, they are kept in protected tanks to strengthen and prepare for their journey back to the sea.

Visitors to the hatchery have the unique opportunity to witness the fascinating process of hatching and learn about the life cycle and conservation efforts of these remarkable creatures.




Apart from its conservation efforts, the Bentota Turtle Hatchery also plays a vital role in educating the public and raising awareness about the importance of sea turtle conservation. Visitors are provided with informative tours, where they can learn about the threats faced by sea turtles and the actions they can take to protect these endangered species. The hatchery also conducts educational programs for local communities and schools, emphasizing the significance of preserving the marine ecosystem and encouraging responsible tourism practices.




### The Location Of Bentota Turtle Hatchery



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**"Your donation can make a real difference in protecting and conserving turtle populations."**

By donating to turtle conservation, you become an integral part of the global effort to preserve these magnificent creatures. Your contributions directly contribute to the survival and well-being of turtles, helping to safeguard their future and the delicate balance of marine ecosystems they inhabit. Together, through our collective efforts and donations, we can make a significant impact in protecting turtles and ensuring their continued existence for generations to come.



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#### 4. WEBSITE LINK

GitHub Website Link:

<https://januki10.github.io/HTML-Assignment/home.html>

#### 5. REFERENCES

<https://www.mahoora.lk/most-interesting-sea-turtle-facts-from-sri-lanka.html>

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<https://www.iotn.org/wp-content/uploads/2015/10/17-2-SEA-TURTLE-HATCHERIES-IN-SRI-LANKA-THEIR-ACTIVITIES-AND-POTENTIAL-CONTRIBUTION-TO-SEA-TURTLE-CONSERVATION.pdf>

#### 6. CONCLUSION

Throughout this assignment I have learnt skills such as HTML, CSS and using GitHub to host websites. Additionally, I have learned to use CSS to style and design web content, incorporating various layouts, and colors to create visually appealing and user-friendly websites. As JavaScript is not used in this website, a lot more functionality that could be added is limited.