SPL2 Project Proposal Form, 2024

Institute of Information Technology (IIT)

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Project Title: Conserve the Deep: Marine Life Conservation Platform.

Motivation:

Conserve the Deep addresses threats to marine species by raising awareness and engaging users in conservation efforts. The platform supports research on biodiversity while facilitating knowledge exchange among users. Through interactive exploration and a pollution-cleaning game, it fosters a deeper understanding of the Bay of Bengal's unique ecosystems.

Project Description:

Bay of Bengal Ocean Exploration is a web-based application designed to bring users closer to the unique marine life of the Bay of Bengal. Through engaging, interactive exploration and a pollution-cleanup game, users learn about biodiversity, conservation, and environmental impact.

Normal Requirements:

Scroll-Based Ocean Exploration: This feature allows users to navigate the ocean depths through a smooth scroll-based interface that reveals different layers of the ocean and the species that inhabit them. As users explore, they'll encounter profiles of species that are extinct or currently at risk of extinction, with clickable icons providing in-depth information on each species' background, conservation status, and threats they face. Users can also explore data on various oceanic conditions at each depth, such as temperature, pH levels, salinity, oxygen saturation, light intensity, and species density, offering a comprehensive understanding of how these factors affect marine ecosystems and biodiversity.

Shark Sprint-Clean and Escape Game: An engaging game where users play as a diver working to clean pollutants from the ocean, all while dodging obstacles like sharks. This game emphasizes the urgency of conservation in a fun and interactive way.
Species Profiles: A detailed directory of Bay of Bengal species, featuring images, habitat descriptions, and conservation status. These profiles are accessible throughout the exploration, providing educational value as users learn more about marine life.
Exciting Features:
Community: A dedicated space for users to connect, share insights, and discuss conservation efforts, fostering a collective sense of responsibility toward marine preservation.
Chatbot: An interactive AI assistant that offers real-time guidance, conservation tips, and answers to user questions, enhancing the learning experience and providing support.

Strategy/ Timeline

PROJECT TITLE

Conserve the Deep: Marine Life Conservation Platform

PROJECT Supervisor

Dr. Zerina Begum

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	Backend Development			Frontend Development				Initial Planning & SRS			PROJECT WEEK:			
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Languages or Tools to be used:
Supervisor's Name:
Signature of the supervisor:
Date:
Before the Midterm Presentation 1:
I confirm that the progress is satisfactory and I am forwarding it for midterm presentation.
Signature of the supervisor:
Date:

Proposal Presentation Feedback (if any):	
Midterm 1 Presentation Feedback (if any):	
Midterm 2 Presentation Feedback (if any):	