

Project Design Phase-I
Proposed Solution

Date	19 September 2022
Team ID	PNT2022TMID27577
Project Name	Project - Digital Naturalist – AI Enabled tool for Biodiversity Researchers
Team Members	JOESHIBHA K, NITHILA RUFINA J, JEDIDAH BERYL BENITA SOLOMON, ILAYANILA C G
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<p>i) How can we help both experienced and inexperienced users to identify species of plants and animals and their characteristics with related information?</p> <p>ii) Inexperienced users need to know about poisonous plants and dangerous animals so that they can stay away from it.</p> <p>iii) Both experienced and inexperienced users need to know about the medicinal values of a plant because they need to use it in case of emergencies.</p> <p>iv) All the users need to know about the rarity of the species of birds, animals or plants so that they can preserve and save it.</p>
2.	Idea / Solution description	<p>i) Identify Botanical names and species</p> <p>ii) Display an alert message for plants/animals using different colours</p> <p>iii) Provide small descriptions on the species</p> <p>iv) Indicate its rareness</p> <p>v) What disease is this plant suffering from?</p> <p>vi) What kind of diseases do these plants cure?</p>

3.	Novelty / Uniqueness	<p>i) Providing notifications on; if a species is harmful or not.</p> <p>ii) Display the scientific name and alert the user on the rarity of the species.</p> <p>iii) Giving a complete description about the species which is being viewed.</p> <p>iv) If the plant has a medicinal value, it provides a description about it.</p>
4.	Social Impact	The major <u>impact</u> is being able to identify the flora and fauna (of various species) around oneself, leading to an interest in protecting all wildlife.
5.	Business Model (Revenue Model)	<p>i) Free only for the first month.</p> <p>ii) Can make money through subscriptions.</p> <p>iii) Partnership with many laboratories and scientists all around the world.</p> <p>iv) Partnering with major hiking organizations around the globe.</p> <p>v) Partner with zoos and wildlife sanctuaries.</p>
6.	Scalability of the Solution	<p>i) We can introduce subscription models like free plan, business plan, educational plan and many more.</p> <p>ii) As the usage and user base of this application grows, more features can be added to the premium or subscription model.</p> <p>iii) With increase in usage, scaling the application by releasing more languages based on the geographical usage is possible.</p>