Project Design Phase-I
Proposed Solution

Date	19 September 2022
Team ID	PNT2022TMID21994
Project Name	Project - Digital Naturalist - AI Enabled tool for Biodiversity Researchers
Maximum Marks	2 Marks

Proposed Solution :

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	● Need for a way to analyze and identify the type of living beings in a particular environment,so that they can gain knowledge about different species. ● There should be a recognition software that is able to recognize a species in any given angle.
2.	Idea / Solution description	● The aim is to develop a recognition software using the concept of supervised learning that takes in a image of various species as the input and provide the name of the species as the output.
3.	Novelty / Uniqueness	● Unlike the other open source solution available, this application not only classifies an image as either plant or animal but also tells about the individual species name. ● There are also some solutions available which either work only for one class of species, I.e either plants or animals.
4.	Social Impact / Customer Satisfaction	● Create a set of model citizens who are aware of the various species in their surroundings prompting them to be more environmentally conscious. ● Create a way to identify the indigenous and endangered species so that people can spread awareness about them and protect those species.
5.	Business Model (Revenue Model)	● The solution is a reliable recognition softwareplanned to be created as an application with which the consumers can identify the type ofliving beings in a particular environment. ● It follows a non-monetary revenue model where the consumers aren't asked to pay any fee but when they use the software for

		recognition purposes the image they provide isstored in the database and used for future training
6.	Scalability of the Solution	• This project is focused on recognizing a limitednumber of species of each category. • In future, this project can be extended to recognise many other species with the help of acarefully crafted dataset. • This project can be extended to provide more detailed information about each instance of a living being like places where they are commonly found, eating habits, etc.