

# Project Design Phase-I

## Proposed Solution

Team ID	PNT2022TMID21731
Project Name	Digital Naturalist -AI Enabled tool for Biodiversity Researchers
Maximum Marks	2 Marks

## Proposed Solution Template:

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

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<ul style="list-style-type: none"><li>✓ Helps Naturalists and Non-Naturalists users or the common people who go for hikes , canoe trips , excursions to explore the different species of flora and fauna found in that terrain</li><li>✓ Provides the name of the different plants and animals along with their names in seven taxonomic ranks namely kingdom, phylum or division, class, order, family, genus and species</li><li>✓ Naturalists and Non-Naturalists are shown the characteristics and other fascinating facts about the flora and fauna</li><li>✓ Naturalists and Non-Naturalists need to know about the poisonous and dangerous plants and animals in order to stay way from them, medicinal values of plant to use in case of emergencies and rarity of various species of plants, animals and birds so that they can take necessary steps to conserve them.</li></ul>
2.	Idea / Solution description	<ul style="list-style-type: none"><li>✓ Display biological names of flora and fauna</li><li>✓ What type of disease does the plant cure</li></ul>

		<ul style="list-style-type: none"> <li>✓ Show alert messages for plants/ animals using different colours and in which way they are highlighted</li> <li>✓ Display rarities of the species</li> <li>✓ Description about the species</li> </ul>
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> <li>✓ Alerting the user based on rarity of the species found</li> <li>✓ Complete description about the characteristics of the species</li> <li>✓ Alert the users if the species is dangerous or not</li> <li>✓ Giving the medicinal values of plants and its description</li> <li>✓ Displaying the names in 7 taxonomical levels of each flora and fauna</li> </ul>
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> <li>✓ Identifying the flora and fauna in our locality / environment helps in improving and understanding biodiversity and the importance of conserving and preserving them for our future generations</li> <li>✓ Establishment of more national parks and wildlife sanctuaries</li> </ul>
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> <li>✓ Introducing Subscription can be a major source of revenue for the application</li> <li>✓ Partnership with many naturalists, universities and scientists around the world</li> </ul>
6.	Scalability of the Solution	<ul style="list-style-type: none"> <li>✓ As the application grows more popular, new and innovative features can be added now and then</li> <li>✓ As the number of users for the application grows steadily, we can introduce the application's version in different languages spoken in different geographical locations</li> <li>✓ Subscriptions can be classified according to the type of users including the Normal plan, Educational plan, and Business plan</li> </ul>