Project Design Phase-I Proposed Solution

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID51330 |
| Project Name | Project - Digital Naturalist - AI Enabled tool for Biodiversity Researchers |
| Maximum Marks | 2 Marks |

**Proposed Solution :**

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| **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 |

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|  |  | 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. |