

DIGITAL NATURALIST


Project Design Phase-I

Proposed Solution Template

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| Date | 11 November 2022 |
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| Project Name | Digital Naturalist - AI Enabled tool for Biodiversity Researchers |
| Maximum Marks | 2 Marks |

Proposed Solution Template:

| S.No. | Parameter | Description |
|-------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Problem Statement (Problem to be solved) | <p>It is a software that is used to recognize the species in any given angle.To build an efficient AI based image recognition tool which effectively to check outthe following constraints:</p> <ul style="list-style-type: none">➤ To capture the flora and fauna using the AI tool➤ To provide the information about the flora andfauna . |
| 2. | Idea / Solution description | <ul style="list-style-type: none">➤ This system is built by using the Image recognition and classification using (CNN)Convolutional neural network.➤ The main aim of this project is to provide the species name and classification as output and it takes multiple dataset as input.➤ This System uses Supervised learning concept. |

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| 3. | Novelty / Uniqueness | <ul style="list-style-type: none"> ➤ The service is a open source so we can used anywhere and anytime. ➤ It also provides various information regarding the respective flora and fauna. |
| 4. | Social Impact | The feasibility of implementing this idea is moderate neither easy nor tough because the system needs to satisfy the basic requirements of the customer as well as it should act as a bridge towards achieving high accuracy on predicting input and to deliver |
| 5. | Customer Satisfaction | <ul style="list-style-type: none"> ➤ Customers can easily and quickly identify the particular species name.  |
| 6. | Business Model (Revenue Model) | In this system, the users can predict and analyse the picture of the animals or plants. In which it results to the visualizing the description of the flora or fauna which taken as input. It is a non-monetary revenue model where the consumers aren't asked to pay any fee. |
| 7 | Scalability of the Solution | The project is focused on recognizing a limited number of species. In future, this project can be extended to recognise many other species with the help of a multiple dataset. |

