

PNT2022TMID45119

**Project Title: Digital Naturalist
Fit**

**Project Design Phase-I - Solution
Team ID: PNT2022TMID45119**

- AI Enabled tool for Biodiversity Researchers

- Zoologists
 - Paleontologists
 - Wildlife Photographer
 - Botanist
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 - Availability of information about flora and fauna from a single source
 - Remember all the massive information about flora is difficult
 - Writing down the new information on the site for research purposes
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 - Searching in Encyclopedia
 - Asking the Locals
 - Searching in the internet
 - Studying about native species from state government tourism portal
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- It is important to know information about flora and fauna that is in our native and the places where we visit
 - If there is a recognition software to differentiate flora and fauna it would be useful
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- Very little information about plants and animals that are living in our locality
 - Lack of information on these plants and animals
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- Whenever they need information they can access the portal and clarify their doubts regarding the species they have come across
 - They can browse the portal whenever they are free and learn about new and exiting things
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- - Unable to determine whether a particular species of plant is poisonous or not while camping

- **TRIGGERS**

- Having trouble to classify the animals

10. YOUR SOLUTION

8.CHANNELS of BEHAVIOUR



8.1

ONLINE

whether it is carnivore, herbivore, omnivore

Having trouble specifying the class of animals such as herbivore, carnivore, omnivore

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2. Being not able to determine the particular plant or animal is poisonous or not

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- The main aim is to create a recognition software using supervised learning which takes the image of the flora and fauna as input and gives their Latin names and commonly used names as an output to the users
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 - Whenever they need to know information they can access the online resources to clarify doubts

– In their free time they browse through various sources to gain knowledge about the local flora and fauna

8.2 OFFLINE

- The aim is to develop a recognition software using the
 - concept of supervised learning that takes in the image
 - of various species as the input and provides the species name as output.
- – Whenever they need help onsite, access the online resources to clarify their doubts regarding the encountered species
 - They can write their new discoveries offline

- **EMOTIONS: BEFORE / AFTER**

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– Before:

- lost,
- Frustrated, & confused
- Less Knowledge on flora & fauna
- Confusion in determining the plants & animals

- enlightened,

- Relieved,

- & confident

- After:

1. More Knowledge on flora & fauna
2. No more confusion

when they researching and can later update whenever they want