Project Design Phase-I
Problem – Solution Fit Template

Date	29 October 2022
Team ID	PNT2022TMID42852
Project Name	Project – Digital Naturalist – AI Enabled Tool for Biodiversity Researchers
Maximum Marks	2 Marks

Template:

1. CUSTOMER SEGMENT(S) — CS
Define CS, fit into CC
- Ornithologist
- Students
- Hikers
- Migrators
- Biologist
- Zoologist
- Tourister
- Research people

6. CUSTOMER CONSTRAINTS — CC
- Network issues
- Insufficient knowledge about the biodiversity.
- Cannot remember all the basic life saving tips
- Making observations among species.

5. AVAILABLE SOLUTIONS — AS
Explore AS, differentiate
- Need to always carry a guidebook around everywhere
- Internet databases where we must search for certain species from the mountain of images from the web using modern algorithms.
- Usage of ai to tackle different complex difficulties in the wildlife.

2. JOBS-TO-BE-DONE / PROBLEMS — J&P
Focus on J&P, tap into BE, understand RC
- Unable to identify sub species of certain amphibians or birds.
- Cannot find a suitable place to work in the workplace
- Cannot find the exact habitat of certain species.

9. PROBLEM ROOT CAUSE — RC
- complexities in identification
- Information gathering
- Need to depend on external resources
- Large dataset
- Money problem
- Depend upon Guide

7. BEHAVIOUR — BE
Focus on J&P, tap into BE, understand RC
- Volunteering for jobs where we can actively work with wildlife
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- Finding rare and endangered species of flora and fauna and help them navigate in current

3. TRIGGERS — TR
Identify strong TR & EM
- Save nature
- Save Endangered Species
- Expanding the lifespan of certain species through medicine
- Helps to gather aerial species away from places where they are prone to tower kill or other dangers

10. YOUR SOLUTION — SL
- It can be in offline mode
- All information about the Species should be displayed.
- Medical Benefits of different plants can be displayed.
- Display alert messages for plants/animals
- Display alert messages for plants and animals.

8. CHANNELS of BEHAVIOUR — CH
Identify strong TR & EM
8.1 ONLINE
- Capture image and search it
- Browse using the internet
8.2 OFFLINE
- Hand notes
- Getting the information from experienced user

4. EMOTIONS: BEFORE / AFTER — EM
- Co2 to o2
- Imbalanced world to sustainable world
- Accumulation of waste to renewable energy