Project Title: Digital Naturalist (AI Enabled tool for Biodiversity Researchers)

Project Design Phase-I: Solution Fit

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Define CS, fit into CC

Explore AS, differentiate

1. CUSTOMER SEGMENT(S)　　CS

- Individual who are interested in biodiversity researchers.
- The proposed system utilizes architecture coupled with MobileNet to achieve maximum accuracy.
- The system will be fast enough to detect and recognize multiple species.
- Customers will be Ornithologist, Hikers, Tourists, Researchers, Students, Biologists, Zoologists, Migrators, etc.

6. CUSTOMER CONSTRAINTS　　CS

- Individuals face network issues.
- To increase availability of digital images to create new datasets of species observations.
- All basic life saving tips especially of wildlife cannot be easily attained.

5. AVAILABLE SOLUTIONS　　CS

Developing a solution, which can able to identify the correct species , location and environment for the given image would be beneficial for many individual as well as ornithologist.
Merits : interaction between the individual & biodiversity researchers is more efficient & effective .
Demerits : If network is not available then it doesn't give a result .

Focus on J&P, tap into BE, understand RC

Focus on J&P, tap into BE, understand RC

2. PROBLEMS　　J&P

- Finding exact habitat of various species is difficult.
- Sub-species of amphibians is especially hard to identify.
- Timing clashes and inadequacy.

9. PROBLEM ROOT CAUSE　　RC

- Only less training sets are available
- Cost and purchase problems
- Complexity in species identification
- Accurate documentation is time consuming.

7. BEHAVIOUR　　BE

Our customers can easily search for animal and plant species using this web application which is inbuilt with the latest technologies that perform the necessary task.

Identify strong TR & EM

Identify strong TR & EM

3. TRIGGERS　　TR

- A Welcome Message
- Save Endangered Species
- Helps to gather aerial species away from various places

4. EMOTIONS: BEFORE / AFTER　　EM

- Acquire more customers.
- Imbalanced world to sustainable world.
- Waste accumulation to renewable energy.

10. YOUR SOLUTION　　SL

- All information about each and every Species should be displayed.
- Medical Benefits of different plants can be displayed.
- Display alert messages or notifications of information for plants or animals.
- Can be provided in offline mode.

8. CHANNELS of BEHAVIOUR　　CH

1. Online
- Visit a Landing Page
- Download Content
- Provide Feedback
- Submit an Email
- Refer a Friend

2. Offine
- Decide the smallest amount of data for storing locally