

## Project Design Phase-I - Solution Fit Template

Project Title : Digital Naturalist – AI Enabled tool for Biodiversity Reseachers

Team ID : PNT2022TMID36210

Define CS, fit into CC	<b>1. CUSTOMER SEGMENT(S)</b> <b>CS</b> <ul style="list-style-type: none"> <li>- Botanists</li> <li>- Wildlife-photographers</li> <li>- Trekkers</li> <li>- Ornithologists</li> <li>- Hikers</li> <li>- Naturalists</li> <li>- Mountaineer</li> <li>- Backpackers</li> </ul>	<b>6. CUSTOMER CONSTRAINTS</b> <b>CC</b> <ul style="list-style-type: none"> <li>- Inability to store massive amounts of jargons and information about flora &amp; fauna in mind</li> <li>- Unavailability of an one-stop solution for different species of both flora and fauna</li> </ul>	<b>5. AVAILABLE SOLUTIONS</b> <b>AS</b> <ul style="list-style-type: none"> <li>- Accessing state government tourism portal to know about native species</li> <li>- Asking native people</li> <li>- Travel archives and Encyclopedia</li> <li>- Flora-fauna information crash course</li> </ul>
	<b>2. JOBS-TO-BE-DONE / PROBLEMS</b> <b>J&amp;P</b> <ul style="list-style-type: none"> <li>- There is a need for a way to analyze and identify the type of living beings in a particular environment a person finds themselves in, so that they can gain knowledge about different species.</li> <li>- There should be a recognition software that is able to recognize the species in any given angle.</li> </ul>	<b>9. PROBLEM ROOT CAUSE</b> <b>RC</b> <ul style="list-style-type: none"> <li>- Unavailability of information regarding the local flora and fauna</li> <li>- There is very less knowledge about the animals and plants living in the locality</li> </ul>	<b>7. BEHAVIOUR</b> <b>BE</b> <ul style="list-style-type: none"> <li>- In their free time they browse through various sources to gain knowledge about the local flora and fauna</li> <li>- Whenever they need help onsite, access the online resources to clarify their doubts regarding the encountered species</li> </ul>
Identifying strong TR & SL	<b>3. TRIGGERS</b> <b>TR</b> <ul style="list-style-type: none"> <li>- Unable to determine whether a particular species of plant is poisonous or not while camping</li> <li>- Having trouble specifying the class of animals such as herbivore, carnivore, omnivore</li> </ul>	<b>10. YOUR SOLUTION</b> <b>SL</b> <p>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.</p>	<b>8. CHANNELS of BEHAVIOUR</b> <b>CH</b> <p><b>ONLINE</b></p> <ul style="list-style-type: none"> <li>- Whenever they need help onsite, access the online resources to clarify their doubts regarding the encountered species</li> </ul> <p><b>OFFLINE</b></p> <ul style="list-style-type: none"> <li>- In their free time they browse through various sources to gain knowledge about the local flora and fauna</li> </ul>

	<div><div>4. EMOTIONS: BEFORE / AFTER</div><div>EM</div><div><div><div>- Before:</div><div><div>- Frustrated,</div><div>- lost,</div><div>- &amp; confused</div></div></div><div><div>- After:</div><div><div>- Relieved,</div><div>- enlightened,</div><div>- &amp; confident</div></div></div></div></div> <td data-bbox="749 105 1379 402"></td> <td data-bbox="1379 105 2009 402"></td> <td data-bbox="2009 105 2064 402"></td>			
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