

# Digital Naturalist - AI Enabled tool for Biodiversity Researchers

## Project Design Phase-II

### TEAM ID : PNT2022TMID21731

<div><div>SCENARIO</div><div>Searching, Finding and Gathering information about Flora and Fauna</div></div>	<div><div><b>Entice</b> How does someone initially become aware of this process?</div></div>	<div><div><b>Enter</b> What do people experience as they begin the process?</div></div>	<div><div><b>Engage</b> In the core moments in the process, what happens?</div></div>	<div><div><b>Exit</b> What do people typically experience as the process finishes?</div></div>	<div><div><b>Extend</b> What happens after the experience is over?</div></div>
<div><div></div><div><b>Steps</b> What does the person (or group) typically experience?</div></div>	<div><div>Sees an animal or flower</div><div>The user explores the nature and finds some flowers or animals</div></div> <div><div>Interested to know about it</div><div>The user takes a picture of the animal or flower he saw to know more about it</div></div> <div><div>Searches for information</div><div>The user browses the internet and refers some books to learn about the animal or flower</div></div>	<div><div>Come across our application</div><div>The user is searching the internet about the animal or plant and came to know about our application</div></div> <div><div>Visits the application</div><div>The user visits the application page and creates an account</div></div> <div><div>Using the application</div><div>The user tries to upload the photo that he took before to know more information</div></div>	<div><div>Finds what the species is</div><div>The application shows what the animal or flower in the photo</div></div> <div><div>Verifies the information</div><div>The user shares the information from the application with a Naturalist and confirms the facts</div></div> <div><div>Gathering more info</div><div>The user tries to gather more information about the found species like its habitat, lifecycle etc.</div></div>	<div><div>Learns about the species</div><div>The user learns more information from the internet with the help of our application</div></div> <div><div>Shares the application</div><div>The user shares the application with his/her colleagues and friends</div></div> <div><div>Reviews the application</div><div>The user reviews the application based on the accuracy of the application</div></div>	<div><div>Uses of it</div><div>The user thinks about the usage of the application to his community</div></div> <div><div>Suggestions</div><div>The user tries to give some feedback/suggestions for new features that can be added to the application</div></div>
<div><div></div><div><b>Interactions</b> What interactions do they have at each step along the way?<ul style="list-style-type: none"><li>■ <b>People:</b> Who do they see or talk to?</li><li>■ <b>Places:</b> Where are they?</li><li>■ <b>Things:</b> What digital touchpoints or physical objects would they use?</li></ul></div></div>	<div><div>People</div><div>The user itself, friends , other naturalists and colleagues.</div></div> <div><div>Place</div><div>Garden, Zoo, Sanctuaries or Forests.</div></div> <div><div>Things</div><div>Smartphone / PC</div></div>	<div><div>People</div><div>The user itself.</div></div> <div><div>Place</div><div>Home, Zoo Sanctuary or Forests.</div></div> <div><div>Things</div><div>Application website through Smartphone / PC</div></div>	<div><div>People</div><div>The user itself, friends , other naturalists and colleagues.</div></div> <div><div>Place</div><div>Home, Zoo Sanctuary or Forests.</div></div> <div><div>Things</div><div>Application website through Smartphone / PC</div></div>	<div><div>People</div><div>The user itself, friends , other naturalists and colleagues.</div></div> <div><div>Place</div><div>Home, Zoo Sanctuary or Forests.</div></div> <div><div>Things</div><div>Application website through Smartphone / PC</div></div>	<div><div>People</div><div>The user itself.</div></div> <div><div>Things</div><div>Application website through Smartphone / PC</div></div> <div><div>Place</div><div>Home, Zoo Sanctuary or Forests.</div></div>
<div><div></div><div><b>Goals &amp; motivations</b> At each step, what is a person's primary goal or motivation?</div></div>	<div><div>I need to explore this beautiful nature</div></div> <div><div>Self motivates by exploring new things and seeing new species</div></div> <div><div>Excites to learn about the species</div></div>	<div><div>I need to gather information about that species</div></div> <div><div>I should gather the accurate information</div></div> <div><div>I need to upload the right photo</div></div>	<div><div>Self motivates by seeing the information the application provides</div></div> <div><div>I need to verify the accuracy of the information provided by the app</div></div> <div><div>Aim to gather additional information</div></div>	<div><div>Let me share this and give awareness about the application to my community</div></div> <div><div>Review the application with what i experience</div></div>	<div><div>I should share some suggestions that makes the application more useful</div></div>
<div><div></div><div><b>Positive moments</b> What steps does a typical person find enjoyable, productive, fun, motivating, delightful, or exciting?</div></div>	<div><div>The user excites by seeing the new species</div></div> <div><div>Gets happy by taking a good snap of that species</div></div> <div><div>Searches for the information with curiosity</div></div>	<div><div>Motivates when the user sees a dedicated tool to help the problem</div></div> <div><div>Uploads the image with eagerness</div></div>	<div><div>Gets excited by seeing the results on the application</div></div> <div><div>If the information was accurate, the user is motivated</div></div> <div><div>Continues to search about the species with eagerness</div></div>	<div><div>The user excites by seeing the new species</div></div> <div><div>Gets happy by taking a good snap of that species</div></div> <div><div>Searches for the information with curiosity</div></div>	
<div><div></div><div><b>Negative moments</b> What steps does a typical person find frustrating, confusing, angering, costly, or time-consuming?</div></div>	<div><div>Gets frustrated if he/she snaps a bad picture</div></div> <div><div>Gets frustrated if he/she doesn't find a new species</div></div>	<div><div>If the application is too slow, the user gets frustrated</div></div> <div><div>When the application doesn't work as expected, the user is disappointed</div></div> <div><div>The user gets angry if the application doesn't take the particular file format</div></div>	<div><div>The identified species leads to confusing information</div></div> <div><div>The application shows the incorrect information</div></div> <div><div>The user is not satisfied if the application gives less information</div></div>	<div><div>Regrets using the application</div></div> <div><div>Doesn't want to recommend or share this application to others</div></div>	<div><div>The user is unhappy by the results of the application</div></div>
<div><div></div><div><b>Areas of opportunity</b> How might we make each step better? What ideas do we have? What have others suggested?</div></div>	<div><div>Consider using the application on the spot</div></div> <div><div>Try to take better pictures of the species</div></div> <div><div>Take picture on different angles</div></div>	<div><div>Guest mode should be available so that user can use without registration</div></div> <div><div>The application should be available offline</div></div> <div><div>The application should support most of the file format</div></div>	<div><div>Application should be trained with various variety of species with enormous data</div></div> <div><div>Proper information should be given while training the model</div></div> <div><div>More data could be added for each species</div></div>	<div><div>Referral feature can be added</div></div> <div><div>Rating of the application must be showcased inside the app</div></div> <div><div>A platform for posting what others trying to search and help each other</div></div>	<div><div>Feedback / Suggestion should be collected inside the application</div></div>