

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	03October 2022
Team ID	PNT2022TMID51703
Project Name	Digital Naturalist-AI enabled tool for biodiversity research.
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Login	Login into application Login through Email
FR-4	User Dashboard	Learn to access the application
FR-5	Online digital media	Such as social media images, may be a new source of biodiversity observations, but they are far too numerous for a human to practically review.
FR-6	Images	Images were predominantly biodiversity focused, showing single species.

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	To create an application for the hikers to identify rare species of birds, flowers, mammals by giving a picture taken by them.
NFR-2	Security	The ever-growing number of digital sensors in the environment has led to an increase in the amount of digital data being generated.
NFR-3	Reliability	By combining social media APIs with AI classifiers, we were able to build an AI naturalist capable of creating biodiversity datasets from previously unexploited data sources.

NFR-4	Performance	Being able to identify the flora and fauna around us often leads to an interest in protecting wild spaces, and collecting and sharing information about the species we see on our travels is very useful for conservation groups like NCC.
NFR-5	Availability	When venturing into the woods, field naturalists usually rely on common approaches like always carrying a guidebook around everywhere or seeking help from experienced ornithologists. There should be a handy tool for them to capture, identify and share the beauty to the outside world.
NFR-6	Scalability	Field naturalist can only use from anywhere to identify the birds, flowers, mammals and other species they see on their hikes, canoe trips and Other excursions.