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

Date	10 October 2022	
Team ID	PNT2022TMID30275	
Project Name	Digital Naturalist - AI Enabled tool for Biodiversity Researchers	
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	Transactions	Secure through UPI ID
		 Secure through Debit/Credit cards
		 Secure through Net banking
FR-4	Authentication	Through Biometrics
		 Through OTP verification
		 Through Strong passwords
FR-5	Authorization	API Keys
		Basic Auth
		• HMAC
FR-6	Audit tracking	Financial data
		 Transaction
		Backup of data
FR-7	Administrative functions	 Preserving, Restoring, Maintaining, and
		Protecting data of the species
FR-8	External interfaces	 Creating community
		 Contributors
		Texture, pattern, structural pattern in
		natural objects.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Our solution is intended for wide range of users
		including Biologist, Naturalist, Ecologist with
		different goals.
NFR-2	Security	Multiple ways of authentication to maintain user
		data and data about species, also avoid
		unauthorized access and modification. Better
		encryption, authentication and authorization.
NFR-3	Reliability	Framework for creating digital devices that support
		the exploration of species behaviours in the wild.
NFR-4	Performance	Transfer learning approach to improve accuracy and
		performance of the application.
NFR-5	Availability	This application is available to use offline and online
		and also it will meet all the requirements of the
		users with better services.
NFR-6	Scalability	With the help of cloud services, a greater number of
		users can access the application seamlessly without
		any interrupts or errors.