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

Date	10 October 2022
Team ID	PNT2022TMID49396
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.