

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

Date	17 October 2022
Team ID	PNT2022TMID18742
Project Name	<b>Project</b> - 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	Navigation Service	GPS
FR-4	Database	My SQL, IBM Cloud
FR-5	Premium features	Location sharing, Adding information of new data by User
FR-6	Updating and bug fixing	Updating the application based on user feedback
FR-7	Final Output	Final description of the image (species) captured.
FR-8	Alerts	System should alert about dangerous plants and animals

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	The users must be able to use the application without any problems and difficulties. The app is easy to view and does not strain the eyes. All information are in simple terms. The error rate of the final output must not be more than 20%
NFR-2	<b>Security</b>	SHA-256, Encryptions, AES etc.
NFR-3	<b>Reliability</b>	The system must perform without failure in 80 percent of the time.
NFR-4	<b>Performance</b>	Under normal load, the system must show the results within 15 seconds, and under maximum it can take up to load 30 seconds
NFR-5	<b>Availability</b>	The application will be available 99 % of the time in a month.
NFR-6	<b>Scalability</b>	The system must be able to support 10,000 users while using it. As the usage and user base of this application grows, more features can be added like languages based on the geographical usage, premium or subscription model, etc.