

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

Date	21 October 2022
Team ID	PNT2022TMID23849
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 Gmail Registration through Form
FR-2	User Confirmation	Confirmation via Email & OTP
FR-3	Navigation Service	GPS
FR-4	Database	My SQL & IBM
FR-5	User details	Users must register their personal information. name, age, phone number, and email
FR-6	Updating and bug fixing	Updated Based on user feedback
FR-7	Final Output	Final description of the image captured.
FR-8	Alerts	Alerts about dangerous plants and animals (system)

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Effective for regular users. Users are delighted with the system since they can quickly comprehend what the programme performs.
NFR-2	<b>Security</b>	SHA-256, Encryptions, AES ETC
NFR-3	<b>Reliability</b>	80 percent of the time, the system must operate without error.
NFR-4	<b>Performance</b>	This application supporting 1,000 users per hour must provide 6 seconds or less response time including the rendering of text and images.
NFR-5	<b>Availability</b>	The application will be available 99 % of the time in a month.
NFR-6	<b>Scalability</b>	The programme must be scalable enough to accommodate 10,000 concurrent visitors while still performing at its best.