

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Team Members	POOVENTHAN D PRANESH S SABAREESHWARAN S SANDEEP P K
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Team ID	PNT2022TMID04681
Project Name	Project - 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	<ul style="list-style-type: none">Registration through FormRegistration through GmailRegistration through LinkedIn
FR-2	User Confirmation	<ul style="list-style-type: none">Confirmation via EmailConfirmation via OTP
FR-3	Transactions	Through <ul style="list-style-type: none">UPIMobile / Internet BankingCredit/Debit cards
FR-4	Authentication	<ul style="list-style-type: none">Passwords created by the usersBy sending OTP(One Time Password) to the user mobile
FR-5	Authorization	<ul style="list-style-type: none">Basic authorization
FR-6	Administrative Functions	<ul style="list-style-type: none">Adding, updating and modifying the description of data about various species
FR-7	External Interfaces	<ul style="list-style-type: none">Easy and friendly User InterfacesDiscussion community

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The solution is useful for scientific researchers such as Ornithologists and Botanists, hikers and tourists to identify and analyze the flora and fauna.
NFR-2	Security	Authentication involves multilayer security to make user data and collected data more secure. It involves Encryption and Authorization.
NFR-3	Reliability	The web application should be reliable to cover a wide range of species spread across various habitats.
NFR-4	Performance	Data augmentation to increase the number of datasets and transfer learning techniques for increased accuracy and performance of the application.
NFR-5	Availability	Application will work 24x7 as it is working on cloud technology and will be available 99.9% of times in every month during business hours.
NFR-6	Scalability	The application must be scalable enough to support 10,000 users at the same time while maintaining optimal performance.