Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	29 October 2022
Team ID	PNT2022TMID42852
Project Name	Project – Digital Naturalist - AI enabled tool for biodiversity researchers
Maximum Marks	4 Marks

Solution Requirements:

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 Google API
FR-2	User Confirmation	• Confirmation via Email • Confirmation via OTP
FR-3	Transactions	• Through UPI, Credit/Debit cards and NetBanking.
FR-4	Authentication	• Through OTP sent to mobile. • User created secured passwords.
FR-5	Authorization	• Basic Authorization
FR-6	Administrative functions	• Adding, Updating and Maintaining descriptiondata about various species.
FR-7	External interfaces	• Easy to access UI • Community for discussions

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 demanded for scientific researchers Such as Ornithologists , Zoologists in order to predict and analysis about flora and fauna.
NFR-2	**Security**	Authentication process involves multilayer security to make user data and collected data more secured, also to avoid unknown authorization and data integrity issues. Most security methods include Encryption and Authorization.
NFR-3	**Reliability**	Our framework should be reliable to cover wide range of species spanning across various habitats.
NFR-4	**Performance**	Data Augmentation to increase dataset size along with transfer learning to increase accuracy and performance for better working of application.
NFR-5	**Availability**	Our application possess full-time service (either offline or online) and dataset is constantly updated.
NFR-6	**Scalability**	Our application supports large number of concurrent users without any hurdles or errors through scaled cloud resources.