

Project Design Phase-II

Functional and Non-Functional Requirements

Date	18 October 2022
Team ID	PNT2022TMID52926
Project Name	Web phishing detection

Functional Requirement No.	Functional Requirement (Epic)	Sub Requirement (Sub tasks)
FR-1	User Input	Using web scraping, the URL which needs to be checked is given as input by the user automatically.
FR-2	Feature Extraction	Appropriate Expressions of the URL are extracted using Regular Expressions logic using programming and fed as features
FR-3	Prediction	Model must use a classification based ML algorithms like Decision Tree, Random Forest Classifier, SVMs etc.
FR-4	Verify the link provided by the user	User inputs the link to be verified
FR-5	Display the result	If the site link is a phishing site, user must be aware and read the precautions displayed If the site link is legit, exit the application
FR-6	Sharing and clearing the Queries	If any doubts, send query Read FAQs

Non-functional requirements:

Non-functional Requirement No.	Non-Functional Requirement	Description
NFR-1	Usability	Engage the user about the process to ensure that the functionality can meet design and usability requirements. It relates to overall satisfaction of the user.
NFR-2	Security	Users need to be protected from malicious attacks when using the site.
NFR-3	Reliability	It focuses on preventing failures during the lifetime of the product or system, from commissioning to decommissioning.
NFR-4	Performance	It is the ability of the application to always run acceptably. In time-critical scenarios, even the smallest delay in processing data can be unacceptable.
NFR-5	Availability	Fault tolerance ensuring that the application can meet its availability targets to be resilient
NFR-6	Scalability	It is the ability for the application to scale to meet increasing demands; for example, at peak times or as the system becomes more widely adopted.