

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

Date	25 October 2022
Team ID	PNT2022TMID21985
Project Name	Web Phishing detection
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	Verifying input	User gives an URL (Uniform Resource Locator) in required field to check its verification.
FR-2	Website Evaluation	Model assesses the website using Blacklist and Whitelist approach
FR-3	Extraction and Prediction	It reclaims features based on heuristics and visual similarities. The URL is predicted by the model using Machine Learning methods such as Logistic Regression and KNN.
FR-4	Real Time monitoring	The use of Extension plugin should provide a warning pop-up when they visit a website that is phished. Extension plugin will have the capability to also detect latest and new phishing websites
FR-5	Authentication	Authentication assures secure site, secure processes and enterprise information security.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Analysis of consumers' product usability in the design process with user experience as the core may certainly help designers better grasp users' prospective demands in web phishing detection, behaviour, and experience.
NFR-2	Security	It ensures that any information included inside the system or its parts will be protected from malware threats or unauthorised access. If you wish to avoid unauthorised access to the administrator board, depict the login stream and different user roles as system behaviour or user actions.
NFR-3	Reliability	It specifies the likelihood that the system or its component will operate without failure for a specified amount of time under prescribed conditions.
NFR-4	Performance	It is concerned with a measurement of the system's reaction time under various load circumstances.

NFR-5	Availability	It addresses the probability that a user will actually want to get to the system at a specific moment. While it very well may be addressed as a normal proportion of successful requests, it can likewise be characterized as a level of time the system is functional inside a specific time period.
NFR-6	Scalability	It has access to the highest number of tasks that will allow the system to satisfy the performance basis. There are two techniques to ensure the system to grow as tasks increase: Vertical and horizontal scaling.