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

Date	04 November 2022
Team ID	PNT2022TMID38146
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 inputs an URL (Uniform Resource Locator) in necessary field to check its validation.
FR-2	Website Evaluation	Model checks for the website in appearance of Whitelist and Blacklist.
FR-3	Extraction and Prediction	It retrieves features based on heuristics and visual similarities. The URL is predicted by the model using Machine Learning methods such as Logistic Regression and KNN algorithm.
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. These filters are based on the connection they provide such as HTTP,HTTPS and HSTS.

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 guarantees that any data included within the system or its components will be safe from malware threats or unauthorised access. If you wish to prevent unauthorised access to the admin panel, describe the login flow 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 based on system's load balancing abilities and performance of individual system.
NFR-5	**Availability**	It represents the likelihood that a user will be able to access the system at a certain moment in time. While it can be represented as an expected proportion of successful requests, it can also be defined as a percentage of time the system is operational within a certain time period.
NFR-6	**Scalability**	It has access to the highest workloads that will allow the system to satisfy the performance criteria. There are two techniques to enable the system to grow as workloads increase: Vertical and horizontal scaling.