

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

Date	03 October 2022
Team ID	PNT2022TMID25886
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	User Registration	Registration through Form Registration through G mail Registration through Linked-IN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Authentication	Authentication can be done with password or 2step-verification.
FR-4	User input	User need to download the extension and then inputs an URL (Uniform Resource Locator) in necessary field to check its validation.
FR-5	Website Evaluation	Model evaluates the website using Blacklist and Whitelist approach
FR-6	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.
FR-7	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-8	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	<b>Usability</b>	You will be able to secure your personal data and also protect the data from phishing websites.
NFR-2	<b>Security</b>	It is a secured website which protects these sensitive data to the user and prevents malicious attacks
NFR-3	<b>Reliability</b>	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	<b>Performance</b>	The performance of web phishing detection is high and it is very efficient as it is very easy to understand and has a high security and scale-able
NFR-5	<b>Availability</b>	User can access the website via any browser from anywhere at any time, because it's act as an extension
NFR-6	<b>Scalability</b>	This application can be accessed online without paying. It can detect any websites with an higher accuracy