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

Date	18 October 2022
Team ID	PNT2022TMID35473
Project Name	Project - 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 Input	User inputs an URL in the form to check whether it is a malicious website.
FR-2	Website comparison	The model compares the given URL with the list of phishing URLs present in the database.
FR-3	Feature Extraction	If it is found none on the comparison it extracts the HTML and domain based features from the URL.
FR-4	Prediction	Model predicts the URL using machine Learning algorithms such as Random forest technique.
FR-5	Classifier	Model then sends the output to the classifier and produces the result.
FR-6	Announcement	Model finally displays whether the given URL is phishing or not.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	It is an easy to use and access interface which results in greater efficiency .
NFR-2	**Security**	It is a secured website which protects the sensitive information of the user and prevents malicious attacks.
NFR-3	**Reliability**	The system can detect the phishing websites with greater accuracy using ML algorithms.
NFR-4	**Performance**	The system produces responses within seconds and execution is faster.
NFR-5	**Availability**	Users can access the website via any browser from anywhere at any time .
NFR-6	**Scalability**	This application can be accessed online without paying.It can detect any web site with high accuracy.