

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

Date	03 October 2022
Team ID	PNT2022TMID40431
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	<ul style="list-style-type: none">➤ REGISTRATION THROUGH ONLINE FORM.➤ REGISTRATION THROUGH GMAIL.➤ REGISTRATION THROUGH LINKEDIN.
FR-2	USER CONFIRMATION	<ul style="list-style-type: none">➤ CONFIRMATION VIA EMAIL.➤ CONFIRMATION VIA OTP.
FR-3	INPUT VERIFICATION	<ul style="list-style-type: none">➤ VERIFYING URL (UNIFORM RESOURCE LOCATOR) AND PAY CLOSE ATTENTION TO THE WEB ADDRESS AND DISPLAY IF THE WEBSITE IS MALICIOUS OR NOT.
FR-4	WEBSITE EVALUATION	<ul style="list-style-type: none">➤ EXTRACTING EFFICIENT FEATURES FROM THE URL AND HTML OF THE GIVEN WEBPAGES WITHOUT RELYING ON THIRD PARTY SERVICES.
FR-5	ALERT MESSAGE	<ul style="list-style-type: none">➤ PROVIDING THE WARNING MESSAGE TO THE CUSTOMER BY ALERTING FROM BEING VICTIM.

Non-functional Requirements:

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

FR NO.	NON-FUNCTIONAL REQUIREMENT	DESCRIPTION
NRF-1	USABILITY	<ul style="list-style-type: none">➤ DETECT ACTIVE OR EMERGING PHISHING.➤ AVAILABLE AS A CLOUD SERVICE; NO SOFTWARE TO INSTALL.➤ THIRD PARTY INDEPENDENT.➤ URL FILTERING
NRF-2	SECURITY	<ul style="list-style-type: none">➤ PROVIDE MULTI-VECTOR PHISHING PROTECTION.➤ DATA LOSS PREVENTION.➤ USER CAN MAKE ONLINE PAYMENT SECURELY AND TRUSTWORTHY.
NRF-3	REALIABILITY	<ul style="list-style-type: none">➤ THIS MACHINE LEARNING TECHNOLOGY IS COMPLETELY SIGNATURE-LESS AND AUTOMATICALLY ADAPTS TO EVER-CHANGING FAKE AND PHISHING SITES. IT DOES NOT RELY ON SIGNATURES AND BLOCKLISTS LIKE ANTI-PHISHING TOOLS.➤ REAL WORLD PHISHING CAMPAIGN SIMULATIONS.
NRF-4	PERFORMANCE	<ul style="list-style-type: none">➤ HIGH PERFORMANCE.➤ ADVANCED THREAT ANALYSIS. DATA MINING ALGORITHM USED IN THIS SYSTEM PROVIDES BETTER

		PERFORMANCE AS COMPARED TO OTHER TRADITIONAL CLASSIFICATION ALGORITHMS.
NRF-5	AVAILABILITY	<ul style="list-style-type: none"> ➤ USER-FRIENDLY AND TRANSPARENT. ➤ THIS SYSTEM CAN BE USED BY MANY E-COMMERCE OR OTHER WEBSITES IN ORDER TO HAVE GOOD CUSTOMER RELATIONSHIP.
NFR-6	SCALABILITY	<ul style="list-style-type: none"> ➤ INCREASE USER ALERTNESS TO PHISHING RISKS. ➤ ELIMINATE THE CYBER THREAT RISK LEVEL. ➤ MEASURES THE DEGREE OF CORPORATE AND EMPLOYEE VULNERABILITY.