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

TITLE:	WEB PHISHING DETECTION
TEAM ID:	PNT2022TMID42144
COLLEGE NAME:	AVS COLLEGE OF TECHNOLOGY

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 ONLINE FORM. ➢ REGISTRATION THROUGH GMAIL. ➢ REGISTRATION THROUGH LINKEDIN.
FR-2	USER CONFIRMATION	➢ CONFIRMATION VIA EMAIL. ➢ CONFIRMATION VIA OTP.
FR-3	INPUT VERIFICATION	➢ 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	➢ EXTRACTING EFFICIENT FEATURES FROM THE URL AND HTML OF THE GIVEN WEBPAGES WITHOUT RELYING ON THIRD PARTY SERVICES.
FR-5	ALERT MESSAGE	➢ 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	➢ DETECT ACTIVE OR EMERGING PHSHING. ➢ AVAILABLE AS A CLOUD SERVICE; NO SOFTWARE TO INSTALL. ➢ THIRD PARTY INDEPENDENT. ➢ URL FILTERING
NRF-2	SECURITY	➢ PROVIDE MULTIVECTOR PHISHING PROTECTION. ➢ DATALOSS PREVENTION. ➢ USER CAN MAKE ONLINE PAYMENT SECURELY AND TRUSTWORTHY.
NRF-3	REALIABILITY	➢ THIS MACHINE LEARNING TECHNOLOGY IS COMPLETELY SIGNATURE-LESS AND AUTOMATICALLY ADAPTS TO EVERCHANGING FAKE AND PHISHING SITES. IT DOESNOT RELY ON SIGNATURES AND BLOCKLISTS LIKE ANTIPHISHING TOOLS. ➢ REAL WORLD PHISHING CAMPAIGN SIMULTIONS.

NRF-4	PERFORMANCE	➢ 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	➢ 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	➢ INCREASE USER ALERTNESS TO PHISHING RISKS. ➢ ELIMINATE THE CYBER THREAT RISK LEVEL. ➢ MEASURES THE DEGREE OF CORPORATE AND EMPLOYEE VULNERABILITY.