

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

Date	14 October 2022
Team ID	PNT2022MID12640
Project Name	Project - Web Phishing Detection
Maximum Marks	2 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No:	Functional Requirements and description
FR-1	Feature extraction: Website URLs are present in different forms containing a variety of individual characteristics that make them unique. The ability to extract these characteristics as features that an ML model can learn is a topic of boundless research in the field of deep learning.
FR-2	Website: Web hosting makes the files that compromise a website available for viewing online . Every website ever hosted on the internet runs on a server. The main types of hosting are shared, dedicated, VPS and reseller.
FR-3	Web Phishing Dataset: This is a dataset that has been used as a standard benchmark to train and test phishing detection solutions . It contains various features that an URL would possess.
FR-4	Cloud: The cloud provides a number of IT services such as servers, databases, software, virtual storage, and networking, among others. It allows you to store and access your data over the internet without any limitations .

Non-Functional Requirements:

Following are the functional requirements of the proposed solution.

NFR No:	Non-Functional Requirements and description
NFR-1	Usability: URL feature extraction is one of the practically important issues in phishing website detection applications. The applications of web phishing detection include email, online payment portals, banking websites, etc
NFR-2	Reliability: The system not only produces a classification of the phishing URLs but also a rich description of the features contributing to the co-relation mapping
NFR-3	Web Phishing Dataset: This is a dataset that has been used as a standard benchmark to train and test phishing detection solutions. It contains various features that an URL would possess.
NFR-4	Accuracy: The proposed solution is able to classify websites to be phishing or not with an accuracy of 97%.