

**PROJECT DESIGN PHASE II**  
**FUNCTIONAL REQUIREMENTS**

Project Name	Web Phishing Detection
Team ID	PNT2022TMID49605
Team Members	Anand.K Guru Moorthy.B Mohamed Musthaq.I.B Vaishali.A

**FUNCTIONAL REQUIREMENTS:**

S.NO	Functional Requirement	Sub Requirement
1	User Input	User gives an URL as input and check whether it is legal or phishing site.
2	Comparison of Websites	Our model compares the given website using Blacklist and Whitelist approach.
3	Feature Extraction	If none found on comparison then it extracts feature using heuristic and visual similarity approach.
4	Prediction	Our model predicts the URL using Machine Learning algorithms such as gradient descent , Random Forest, Logistic Regression, Naive Bayes, and Ensemble of Random Forest and RVM classifiers.
5	Classifier	Our model sends all output to classifier and final result will be produced.
6	Announcement	Our model displays whether the website is legal site or phishing site.
7	Accuracy	Our model needs the capability of retrieving and displaying accurate results for a website.

## NON - FUNCTIONAL REQUIREMENTS:

S.NO	Non-Functional Requirement	Description
1	Usability	User can access the website easy and user-friendly. The website detect the phishing website in by comparing the original websites
2	Security	As our project is based on security, the website and model will have high secure.
3	Reliability	It easy to detect and take less time to compare the phishing website.
4	Performance	The model have good performance by using ML algorithm. This model uses various classification algorithm and capable of detect zero hour attacks.
5	Availability	The model use the data set from phishtank and other sources.
6	Scalability	It can handle large number of dataset.