

## Project Design Phase-II

### Functional and Non-Functional Requirements

<b>Date</b>	<b>18 October 2022</b>
<b>Team ID</b>	<b>PNT2022TMID25501</b>
<b>Project Name</b>	<b>Web phishing detection</b>

<b>Functional Requirement No.</b>	<b>Functional Requirement (Epic)</b>	<b>Sub Requirement (Sub tasks)</b>
<b>FR-1</b>	<b>User Input</b>	Using web scraping, the URL which needs to be checked is given as input by the user automatically.
<b>FR-2</b>	<b>Feature Extraction</b>	Appropriate Expressions of the URL are extracted using Regular Expressions logic using programming and fed as features
<b>FR-3</b>	<b>Prediction</b>	Model must use a classification based ML algorithms like Decision Tree, Random Forest Classifier, SVMs etc.
<b>FR-4</b>	<b>Verify the link provided by the user</b>	User inputs the link to be verified
<b>FR-5</b>	<b>Display the result</b>	If the site link is a phishing site, user must be aware and read the precautions displayed If the site link is legit, exit the application
<b>FR-6</b>	<b>Sharing and clearing the Queries</b>	If any doubts, send query Read FAQs

## Non-functional requirements:

Non-functional Requirement No.	Non-Functional Requirement	Description
NFR-1	Usability	Engage the user about the process to ensure that the functionality can meet design and usability requirements. It relates to overall satisfaction of the user.
NFR-2	Security	Users need to be protected from malicious attacks when using the site.
NFR-3	Reliability	It focuses on preventing failures during the lifetime of the product or system, from commissioning to decommissioning.
NFR-4	Performance	It is the ability of the application to always run acceptably. In time-critical scenarios, even the smallest delay in processing data can be unacceptable.
NFR-5	Availability	Fault tolerance ensuring that the application can meet its availability targets to be resilient
NFR-6	Scalability	It is the ability for the application to scale to meet increasing demands; for example, at peak times or as the system becomes more widely adopted.