Project design phase I

Solution architecture

Date	28 September 2022
Team ID	PNT2022TMID07498
Project name	Web phishing detection
Maximum marks	4 marks

Web phishing detection:

There are a number of users who purchase products online and make payments through e-banking. There are e-banking websites that ask users to provide sensitive data such as username, password & credit card details, etc., often for malicious reasons. This type of e-banking website is known as a phishing website. Web service is one of the key communications software services for the Internet.

Solution architecture:

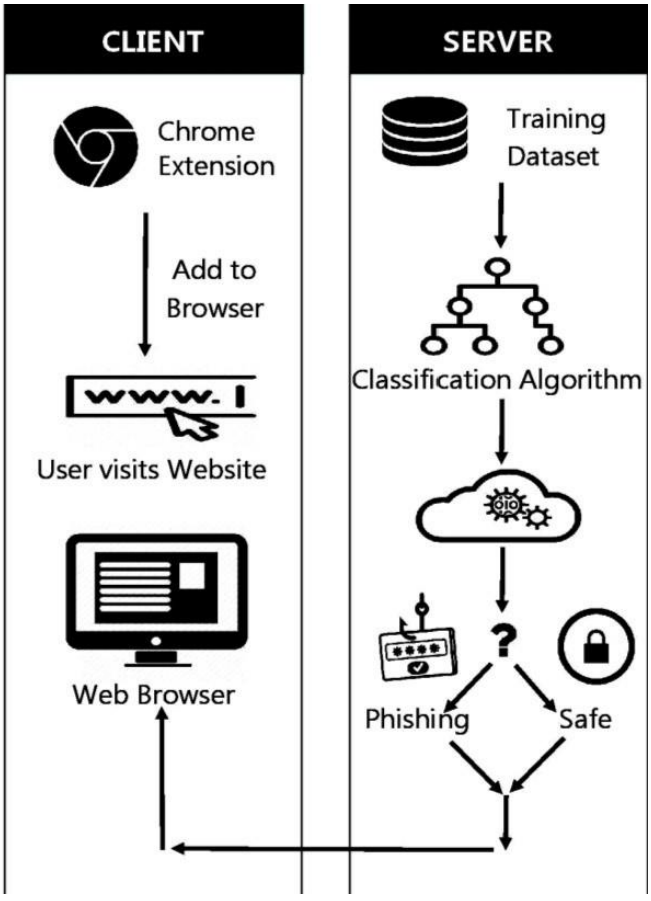

Figure 1: Architecture for web Phishing detection

URL Phishing dataset:

The dataset consists of a collection of legitimate as well as phishing website instances. Each instance contains the URL and the relevant HTML page. The index. sql file is the root file, and it can be used to map the URLs with the relevant HTML pages. The dataset can serve as an input for the machine learning process.

Pre-process/clean the data:

Data cleaning is the process of adding missing data and correcting, repairing, or removing incorrect or irrelevant data from a data set. Dating cleaning is the most important step of pre-processing because it will ensure that your data is ready to go for your downstream needs

Applying different algorithms:

Algorithms are normally built-in underlying languages, that means it can be carried out in more than one programming language. Algorithms are used as specifications for data processing, doing mathematics, automated reasoning, and several other chores like this.

Find the accuracy of the model:

Accuracy is a metric used in classification problems used to tell the percentage of accurate predictions. We calculate it by dividing the number of correct predictions by the total number of predictions.

Build web applications using the Flask framework:

- Installing Flask.
- Creating a Base Application.
- Using HTML templates.
- Setting up the Database.
- Displaying All Posts.