Project Design Phase-I
Solution Architecture
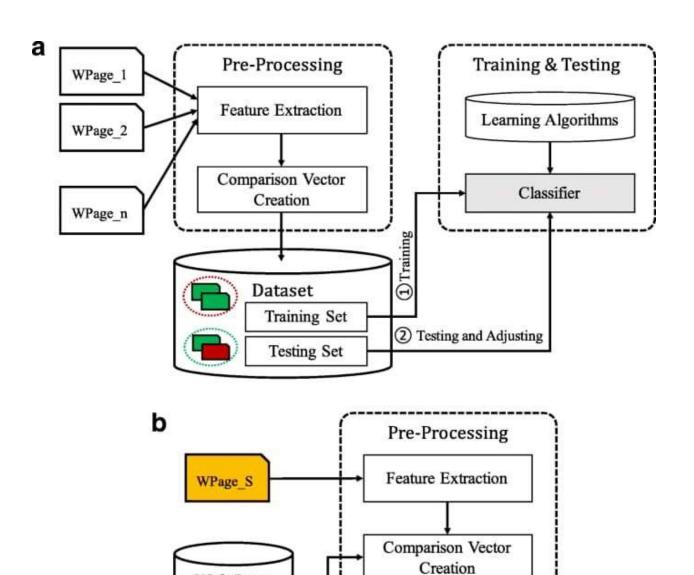
Date	21 September 2022
Team ID	PNT2022TMID07206
Project Name	Web phishing detection
Maximum Marks	4Marks

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges
the gap between business problems and technology solutions. Its goals are to:

•Find the best tech solution to solve existing business problems.
•Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.
•Define features, development phases, and solution requirements.
•Provide specifications according to which the solution is defined, managed, and delivered.

a

WPage_1

WPage_2

WPage_n

Pre-Processing

Feature Extraction

Comparison Vector
Creation

Training & Testing

Learning Algorithms

Classifier

Dataset

Training Set

Testing Set

① Training

② Testing and Adjusting

b

WPage_S

Pre-Processing

Feature Extraction

Comparison Vector
Creation

Web Page
Feature DB

WPage_1

WPage_2

WPage_n

Detecting & Warning

Classifier

```
                          ┌──────────────┐
                          │    START     │
                          └──────────────┘
                                 │
                                 ▼
                          ┌──────────────┐
                          │   OPEN APP   │
                          └──────────────┘
                                 │
                                 ▼
            YES                ◇────◇                NO
        ┌─────────────────── BROWSER? ───────────────────┐
        │                     ◇────◇                      │
        ▼                                                 ▼
  ┌─────────────┐                              ┌──────────────────────┐
  │  INPUT URL  │                              │  SCAN FOR URL BEING   │
  └─────────────┘                              │       OPENED          │
        │                                       └──────────────────────┘
        │              ┌──────────────┐                  │
        └─────────────▶│     URL      │◀─────────────────┘
                       └──────────────┘
                              │
                              ▼
           YES            ◇─────────◇            NO
       ┌───────────────  (RPADML)   ───────────────┐
       │                 PHISHING?                  │
       ▼                 ◇─────────◇                ▼
  ┌─────────────┐                          ┌──────────────────┐
  │  INTERCEPT  │                          │  LOAD PAGE/URL   │
  └─────────────┘                          │    NORMALLY      │
       │                                    └──────────────────┘
       ▼                                            │
  ┌──────────────────┐                              │
  │  SHOW WARNING    │                              │
  │    DIALOGUE      │                              │
  └──────────────────┘                              │
       │          ┌──────────────┐                  │
       └─────────▶│     STOP     │◀─────────────────┘
                  └──────────────┘
```