

Ministry Category : **Indian Space Research Organisation (ISRO)**

Problem Statement : **Develop an efficient spear phishing mail detection system**

Team Leader Name : **Anup Kumar Panwar**

Problem Code : **#ISR47**

Current AICTE Application No. : 1-3328528908

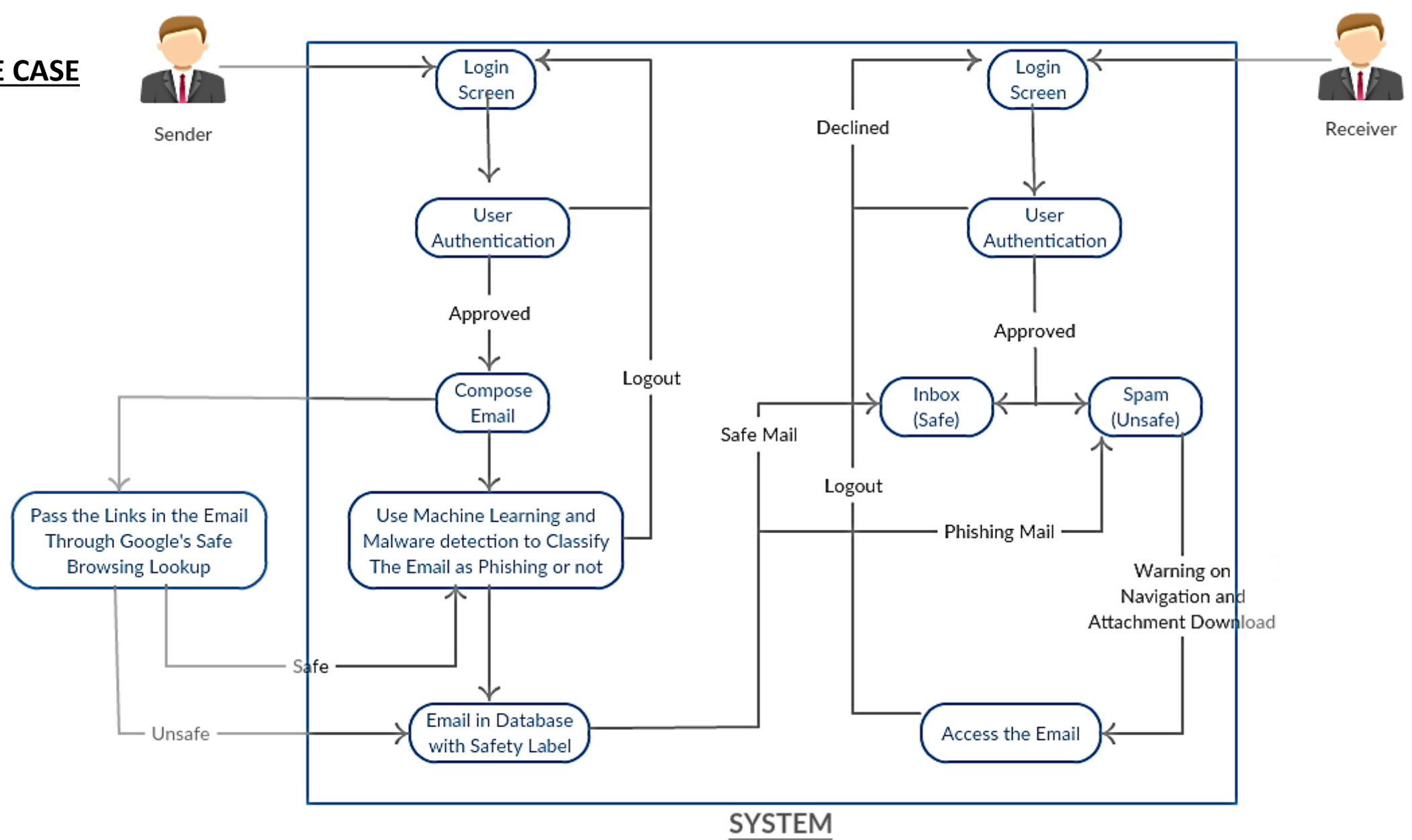
IDEA

- Our idea is to develop a SECURE EMAIL SERVICE (both App & Website).
- We will provide a more efficient PHISHING MAIL detection solution which will be based on Bayesian anti-spam classifier.
- The open source version is available at <http://antispam.readthedocs.io/en/latest/>
- This classifier uses Machine Learning to classify an email as PHISHING EMAIL or not.
- We will train our own model with a large dataset of phishing and spamming emails.
- Moreover we will customize the code to detect MALWARE not only based on text content of the email but also on the attachments in the emails, with an higher accuracy.
- For a email to be classified as safe the sender's email must also match the registered and undersigned domain.
- The links in the email will be checked through GOOGLE SAFE BROWSING APIs (v4).
- Also, we will integrate the CLI based system into a working email service with an inbox, outbox and UNSAFE mails.

Technology Stack

Angular.js, jQuery, PHP, MySQL DB, Python, AJAX, PHP Mailer, APACHE server, WAMP/LAMP, Ionic Framework, ng-Cordova, Android Studio, Node.js, HTML, CSS, Material Design Light (MDL), JavaScript

USE CASE



DEPENDENCIES

Android Device, Internet Connection, A computer, Antispam, GOOGLE SAFE BROWSING LOOKUP APIs (v4)