Basic Details of the Team and Problem Statement

PSID: KVH-007

Problem Statement Title: Spam alert system

Team Name: Hogwarts

Team Leader Name: Spurthik Gurram

Institute Code (AISHE): C-19667

Institute Name: VNR Vignana jyothi Institute of Engineering & Technology

Idea/Approach Details

- Create a platform that collects user-generated data on incoming calls, SMS, and emails.
- Use machine learning algorithms to analyze and classify the data as genuine or spam.
- Generate a risk score for each incoming call, SMS, and email based on the crowd-sourced input.
- Integrate the solution with email providers, phone carriers, and SMS services to provide real-time feedback to users.
- Encourage user engagement through gamification and incentives to contribute to the platform.

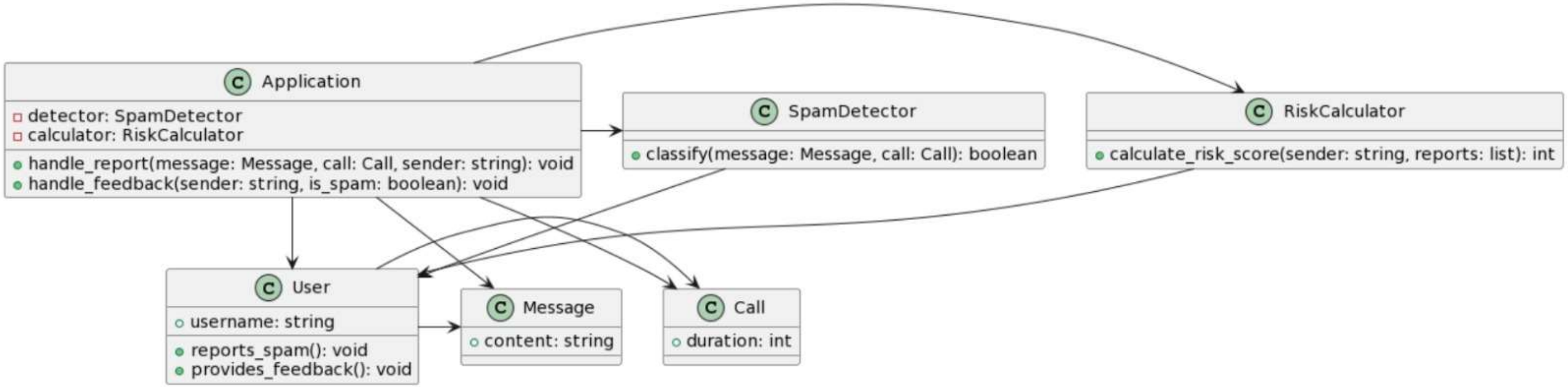
Unique Element :

A unique element that can be added to increase the overall novelty and value of the idea:

Community Reputation System: Implement a reputation system that rewards users for accurate reporting and penalizes them for false reports. This will help maintain the integrity of the platform and encourage users to contribute positively.

Technology Stacks:

- Front-end: React or Angular
- Back-end: Node.js or Django
- Database: PostgreSQL or MongoDB
- Machine Learning: TensorFlow or PyTorch
- APIs: Twilio, SendGrid, and Email Provider APIs



Idea/Approach Details

Use Cases :

- Telecom industry: A Spam alert system can help identify and block unwanted calls, SMS, and MMS messages. It can also help service providers comply with regulatory requirements, such as the TRAI's Do Not Disturb (DND) registry.
- Financial services industry: A Spam alert system can help prevent phishing and other fraudulent activities by identifying and blocking suspicious emails and phone calls. It can also help ensure compliance with regulations, such as the GDPR or the CCPA.
- E-commerce industry: A Spam alert system can help prevent fraudulent orders and spammy reviews by identifying and blocking suspicious accounts and messages.
- Healthcare industry: A Spam alert system can help prevent phishing attacks and identify and block fraudulent healthcare-related messages and calls.
- Government agencies: A Spam alert system can help identify and block spam and fraudulent messages, calls, and emails targeted at government officials or citizens. It can also be used to disseminate public health messages, such as vaccine reminders or health alerts.
- Education sector: A Spam alert system can help identify and block suspicious emails and messages that may contain malware or phishing attempts.
- Social media platforms: A Spam alert system can help identify and block spammy accounts, messages, and posts that violate the platform's community guidelines.

Dependencies / Show stopper :

- User engagement and willingness to contribute to the platform.
- Collaboration with service providers and integration with their systems.
- Data privacy and security concerns.
- Ensuring the accuracy and reliability of the machine learning algorithms.

Team Member Details

Sr. No.	Name of Team Member	Branch (Btech/Mtech/PhD etc):	Stream (ECE, CSE etc):	Year	Position in team (Team Leader, Front end Developer, Back end Developer, Full Stack, Data base management etc.)
1	Spurthik Gurram	Btech	CSE-AIML	2nd year	Team Leader
2	Akula Harshini	Btech	CSE-AIML	2nd year	Database management
3	B Navaneeth	Btech	CSE-AIML	2nd year	Back End
4	G Ruchitha	Btech	CSE-AIML	2nd year	Full Stack
5	C Sai Sreeja	Btech	CSE-AIML	2nd year	Front End
6	Sriram Merugu	Btech	CSE-AIML	2nd year	ML

Team Mentor/s Details

Sr. No.	Name of Mentor	Category (Academic/Industry):	Expertise (AI/ML/Blockchain etc):	Domain Experience (in Years)
1	DEKA BHUPESH	Academic	AI, ML, DSA	10+