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Bsc (Hons) Cybercrime and IT Security



The Spam Catcher
User Manual

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Abstract

The purpose of this project is to develop a web application where users can upload email messages that they received in mailbox into the web application to check if they are spam or ham by using Naïve Bayes classifier. The web application should get result back to the user and review old scans in the same page.

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Introduction

This document contains steps that should be followed by users to set up the spam catcher web application in their PC. This web application can be run on different operation system such as Windows, Linux/Unix and Mac. All code can be found at the GitHub link below: <https://github.com/Oraimi/the-spam-catcher->

Setup the web application

Step1: Install Python3

The user should install Python version 3 on their local machine

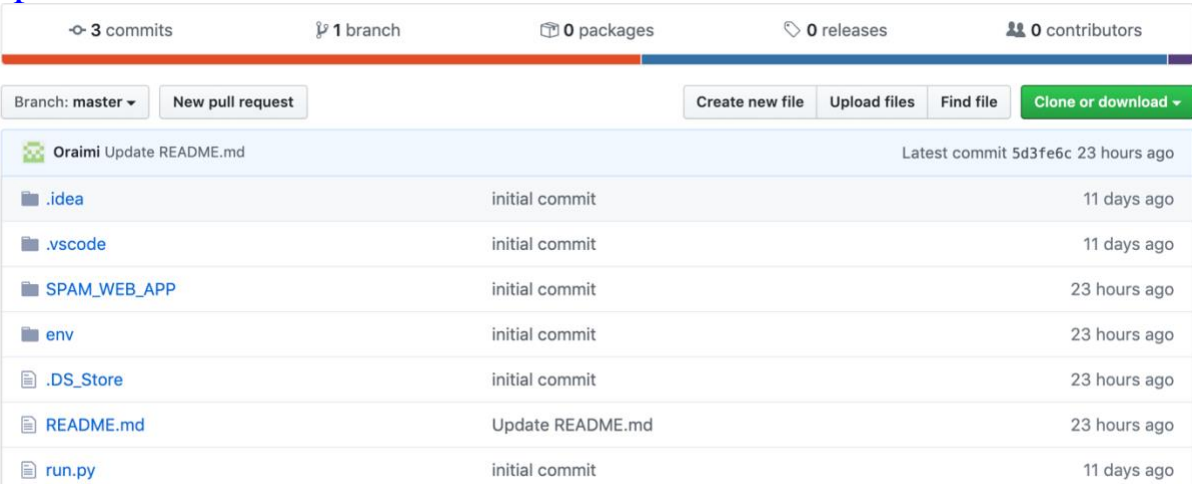
Step2: Install flask and its extension

Use pip3 to install flask

- `$ pip3 install flask`
- `$ pip3 install -u flask_sqlalchemy`
- `$ pip3 install -u flask_bcrypt`
- `$ pip3 install -u flask_login`
- `$ pip3 install -u flask_mail`

Step3: Download the code from Github

3.1 The user should click to this link <https://github.com/Oraimi/the-spam-catcher> to download the code



File/Folder	Commit	Time
<code>.idea</code>	initial commit	11 days ago
<code>.vscode</code>	initial commit	11 days ago
<code>SPAM_WEB_APP</code>	initial commit	23 hours ago
<code>env</code>	initial commit	23 hours ago
<code>.DS_Store</code>	initial commit	23 hours ago
<code>README.md</code>	Update README.md	23 hours ago
<code>run.py</code>	initial commit	11 days ago

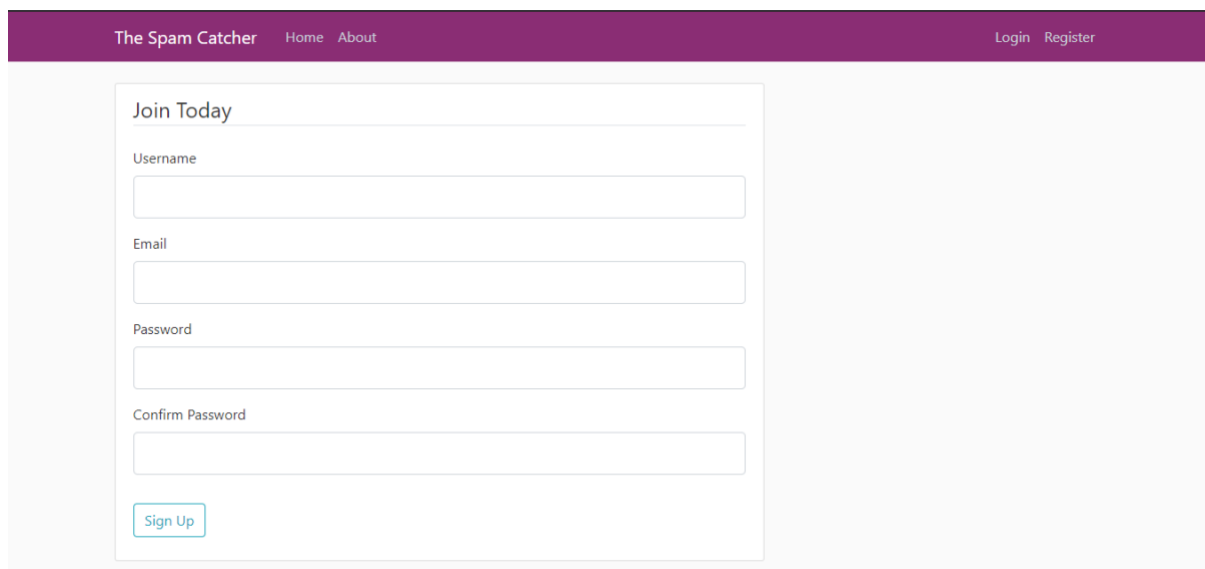
3.2 From Command Line go to the-spam-catcher- folder and type `python3 run.py`

3.3 open your web browser and type in <http://127.0.0.0:5000> to get access to the spam catcher web application

System Usage

1- Signup Page

When you land on the site you will see the signup page where you will enter your details such as email, username and password. Once you have entered all your details, click the signup button and the system will redirect you to the login page.



The screenshot shows a web application interface for a spam catcher. At the top, there is a purple navigation bar. On the left side of the bar, it says "The Spam Catcher" followed by "Home" and "About" links. On the right side, it says "Login" and "Register" links. Below the navigation bar, the main content area is white. On the left side of this area, there is a form titled "Join Today". The form contains four input fields: "Username", "Email", "Password", and "Confirm Password". Below these fields is a blue button labeled "Sign Up".

2- Login page

In this page you have to enter your email and password that you created and then you will be redirected to the home page. Note that your email and password must be correct

The Spam Catcher Home About Login Register

Log In

Email

Password

Remember Me


[Forgot Password?](#)

Need An Account? [Sign Up Now](#)

3- Account page

In this page you are able to change your account details only username and email address. Also you can change your profile picture.

The Spam Catcher Home About Old Scans New Scan Email Header scan Upload Account Logout



Unknown
ayaalaraimi@gmail.com

Account Info

Username

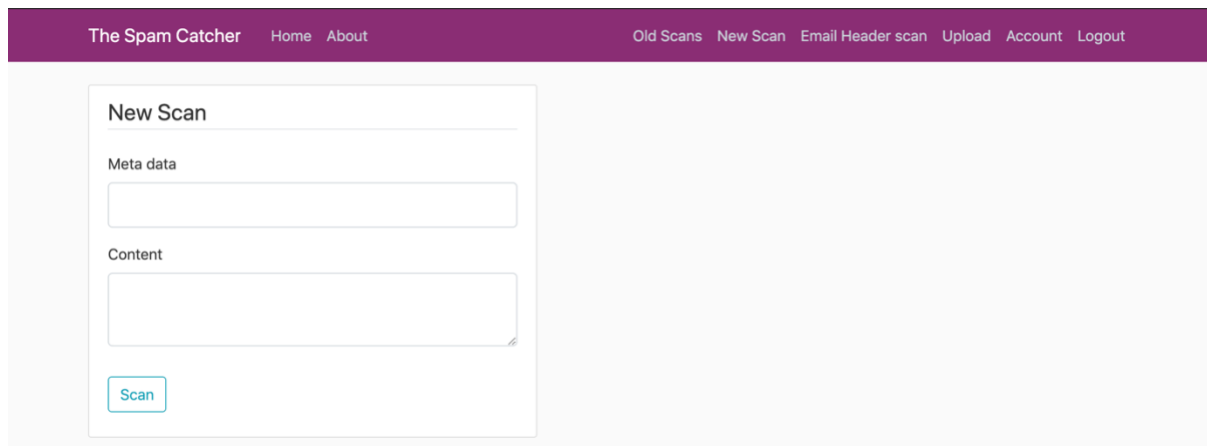
Email

Update Profile Picture

 No file chosen

4- New Scan

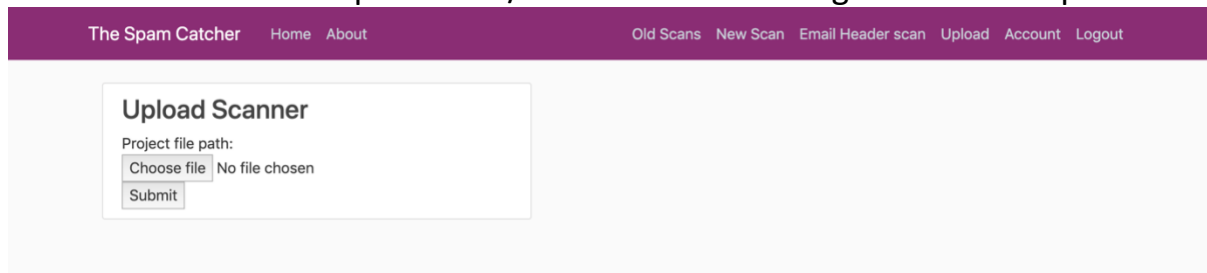
You can copy the content of email message (body) and paste it in the content box and then click scan to see the result.



The screenshot shows the 'New Scan' form within a purple header bar. The header contains navigation links: 'The Spam Catcher', 'Home', 'About', 'Old Scans', 'New Scan', 'Email Header scan', 'Upload', 'Account', and 'Logout'. The form itself is titled 'New Scan' and contains two input fields: 'Meta data' and 'Content'. Below the 'Content' field is a 'Scan' button.

5- Upload

The user can use this option if he/she has email messages in .txt or .zip file.



The screenshot shows the 'Upload Scanner' form within a purple header bar. The header contains navigation links: 'The Spam Catcher', 'Home', 'About', 'Old Scans', 'New Scan', 'Email Header scan', 'Upload', 'Account', and 'Logout'. The form is titled 'Upload Scanner' and includes a 'Project file path:' label, a 'Choose file' button, a 'No file chosen' status, and a 'Submit' button.

6- Email Header Scan

This feature scans email header contents such as Subject, From, To and Message ID

The Spam Catcher Home About Old Scans New Scan Email Header scan Upload Account Logout

email header scan

Tag

Email Header


Scan

7- Old Scan

This page shows history of each scan

The Spam Catcher Home About Old Scans New Scan Email Header scan Upload Account Logout

Scans by Unknown (11)




Unknown 2020-03-27

test8

Result: NOT SPAM

- Gaussian Naive Bayes Value 0.0

Subject: misc software: SALE!
From: "Dusti" <nqkqsmgw@castlemountains.com>
To: info@untroubled.org



Unknown 2020-03-27

test8

Result: SPAM

- Gaussian Naive Bayes Value 1.0

Message-ID: <1a7001c4d30a\$025166f6\$60bcfd46@mint.or.jp>
From: "Elisabeth Branch" <elisabethbranch_gl@abacus.com.au>
To: cvs@bruce-guenter.dyndns.org
Subject: Order Rolex or other Swiss watches online