

Security Camera

Prepare for
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e2STEM higher Diploma Software Development

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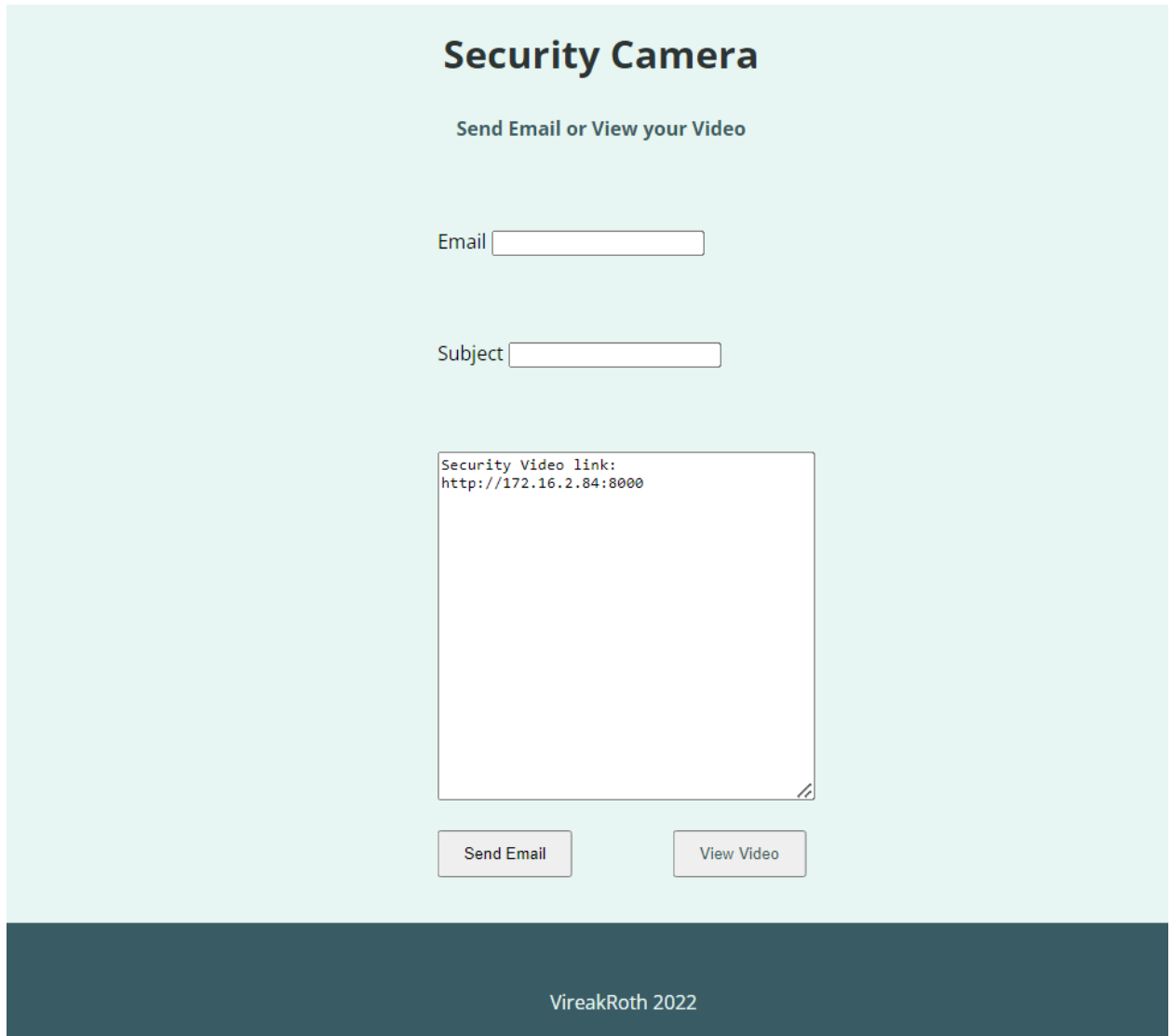
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Introduction

We often find the security camera displayed on the TV screen. What if there is a security camera that can display on devices such as laptops Monitors and phones so we can see our child, pet, or parents remotely More than that we can access it wherever we go if we are connected to the internet. Another feature is it can alert us as users whenever we start our camera by sending a mail to the user.

Features

- First our camera captures the video from the camera sensor and sends it to the web browser.
- Able to send videos or alerts to the user through Gmail.
- Able to stream the video from a web browser or any other device.
- Send the video link to the MySQL server



The screenshot shows a web interface titled "Security Camera" on a light teal background. Below the title is a subtitle "Send Email or View your Video". There are two input fields: "Email" and "Subject". Below these is a large text area containing the text "Security Video link:" and "http://172.16.2.84:8000". At the bottom of the text area is a small icon of a pencil. Below the text area are two buttons: "Send Email" and "View Video". The footer of the page is a dark teal bar with the text "VireakRoth 2022".

Figure 1 the user interface

Constraint

- The main application that supports this is Gmail.
- The video stream is recorded in 760p only
- It can only stream the video it is not able to store the video on the local machine or database.

Instruction

As shown in figure 1 we can see three form inputs and two buttons. For the first two form input, we can fill in the email and subject of the email to who we want to send it. In the form text area, we already have a text default holder but we are also able to fill in some more information as we like. Moving to the button we have two choices first if we have already filled in correctly all the input above we can click send to send the email and the second button is to see a live stream video that has been recorded from Raspberry Pi Camera.

Future plan

There are a lot of areas we can improve on this project and I am looking forward to making it better and more usable. The first priority is to include the sensor so if the camera captures some object that is suspicious it is going to report to the user. Another important feature is to store the video thus the user can invoke it to see if they needed.