Hacking the Shoals Shack NFC Card Reader & Sending Customers Fake Coupons

This project will make use of the following credit card reader as the attack vector:

I will leverage an ESP32 device to retrieve phone numbers of customers stored using their credit cards NFC reader.
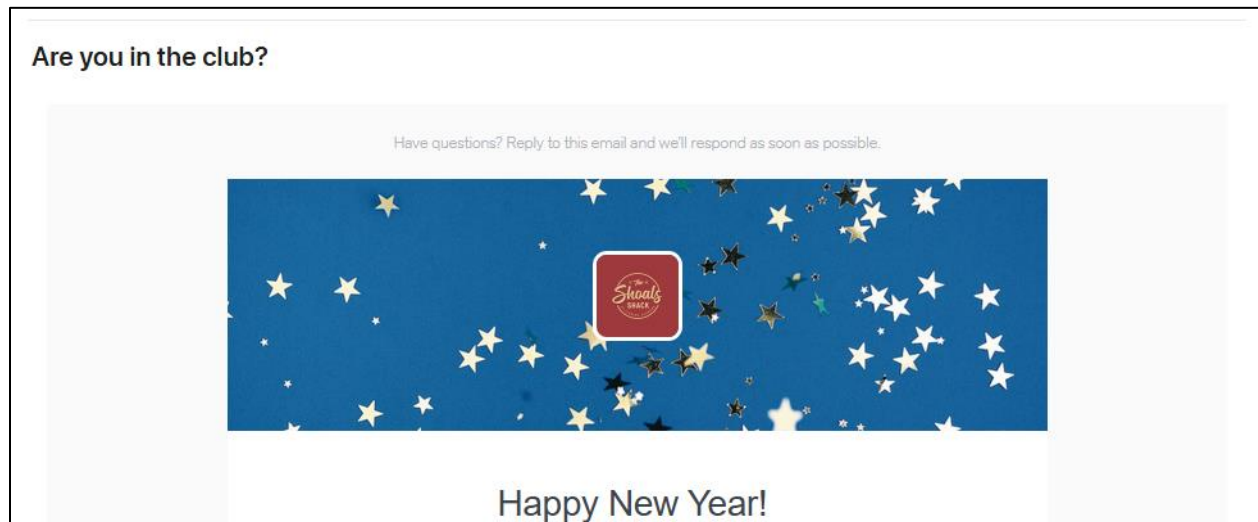
1. This paper details how NFC technology and credit card attacks worse
2. This paper details how a Man-In-the-Middle attack can be performed on one.
3. This guide details how to program and connect the ESP32 module an NFC chip reader (and sample code).

Things to purchase:

4. This link contains the ESP32 device I need
5. This link contains the NFC chip I need
6. I would also like this enclosure box to house the NFC and ESP32
7. I also need some jumper wires (or I can share with someone)
   Total = ~$40

Using the data gathered from the ESP device, I will send out a fake email with a fake ordering screen:

Are you in the club?

Have questions? Reply to this email and we'll respond as soon as possible.

Happy New Year!

Let's start the year off right with a New Year's gift to you: double points for the month of January! We want to show our appreciation to our loyal customers, and what better way than to give you extra perks? If you haven't joined our loyalty club yet, now is the perfect time. Sign up online at checkout or visit us in person at the shack. It's going to be a great year!

Thank you for your continued support from all of us at The Shoals Shack!

ORDER ONLINE