# **Project Proposal for a Phishing Attack**



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## **1. Introduction**

The purpose of this proposal is to outline the design and functionality of a phishing attack website, specifically mimicking an Instagram password change page. This project aims to explore the mechanisms behind phishing attacks and understand the potential threats they pose to users.

## **2. Objectives**

The primary objectives of the phishing attack are as follows:

* To create a website that resembles the Instagram password change interface.
* To capture both old and new passwords entered by users.
* To collect user information such **IP address, current location** (Lat, Long, Postal code, Time Region), **internet provider** and **device information** without user consent.

## **3. Website Design**

### **3.1. User Interface**

* The website will have a clean and familiar design, closely resembling the actual Instagram password change page.
* Input fields will be provided for users to enter their old and new passwords.

### **3.2. Input Field Functionality**

* **Old Password Input Field**: This field will capture the user's existing password.
* **New Password Input Field**: This field will capture the new password that the user intends to set.

### **3.3. Data Capture Mechanism**

* The captured passwords and additional user information will be sent to a designated email address using **Nodemailer**, a Node.js module for email sending.
* Additional user information, such as geolocation, IP address, and device information, will be collected using JavaScript.

## **4. Data Collection**

### **4.1. Geolocation**

* The website will utilize geolocation APIs to determine the user's geographical location without explicit permission.

### **4.2. IP Address**

* The user's IP address will be captured through server-side scripting.

### **4.3. Device Information**

* Device information will be collected through JavaScript to identify the user's device type and operating system.