MES's College of Engineering

Department of Computer Engineering

Class: BE A Date: 27/05/2021

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Name of the Mini project:

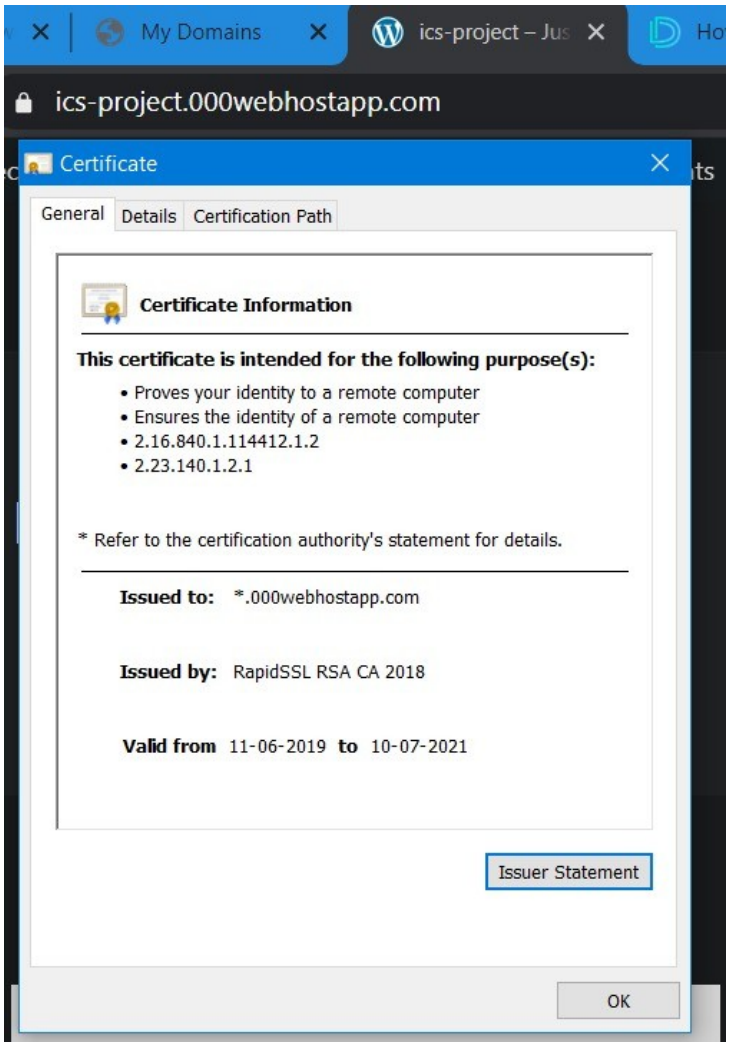
This task is to demonstrate insecure and secured website. Develop a web site and demonstrate how the contents of the site can be changed by the attackers if it is http based and not secured. You can also add payment gateway and demonstrate how money transactions can be hacked by the hackers. Then support your website having https with SSL and demonstrate how secured website is.

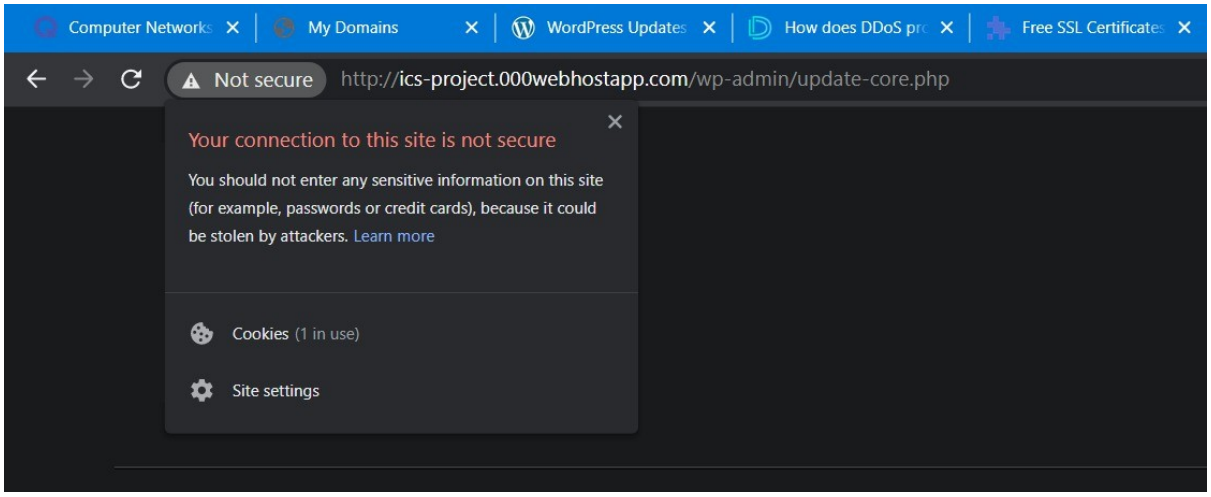
Description:

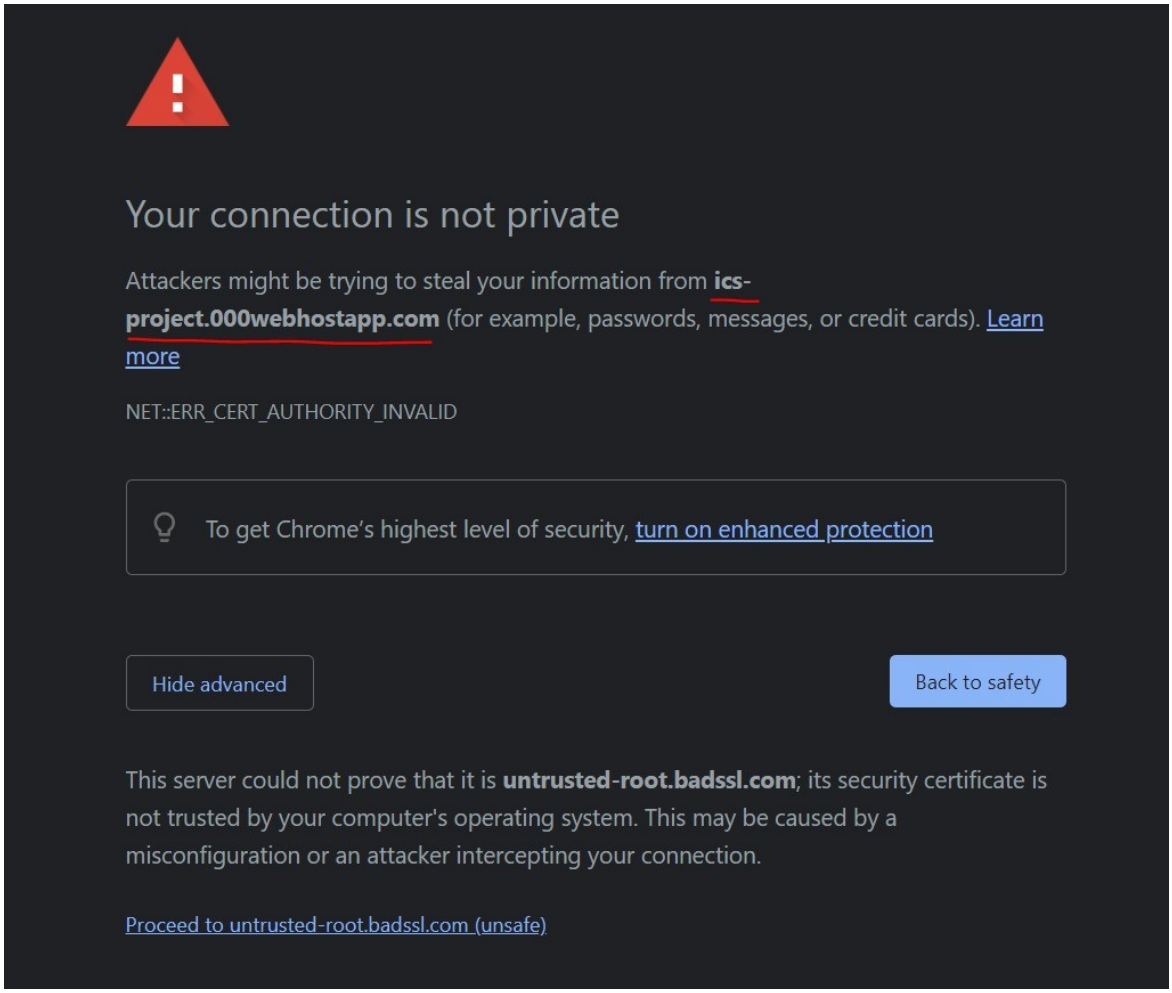
Create two files. First file of html is to demonstrate the web form login page. action file is js program for response for login html file. Now test the web pages. You will observe that all traffic is plain in format. So far we have not talked about SSL or TLS between client and server.In order to implement SSL, a web server must have an associated Certificate for each external interface (IP address) that accepts secure connections. The theory behind this design is that a server should provide some kind of reasonable assurance that its owner is who you think it is, particularly before receiving any sensitive information. While a broader explanation of Certificates is beyond the scope of this document, think of a Certificate as a "digital passport" for an Internet address. It states which organization the site is associated with, along with some basic contact information about the site owner or administrator. This certificate is cryptographically signed by its owner, and is therefore extremely difficult for anyone else to forge. For the certificate to work in the visitors browsers without warnings, it needs to be signed by a trusted third party. These are called Certificate Authorities (CAs). To obtain a signed certificate, you need to choose a CA and follow the instructions your chosen CA provides to obtain your certificate. A range of CAs is available including some that offer certificates at no cost. Install a free SSL certificate from a valid CA. We get a HTTPS website after implementing SSL certificate. HTTPS prevents websites from having their

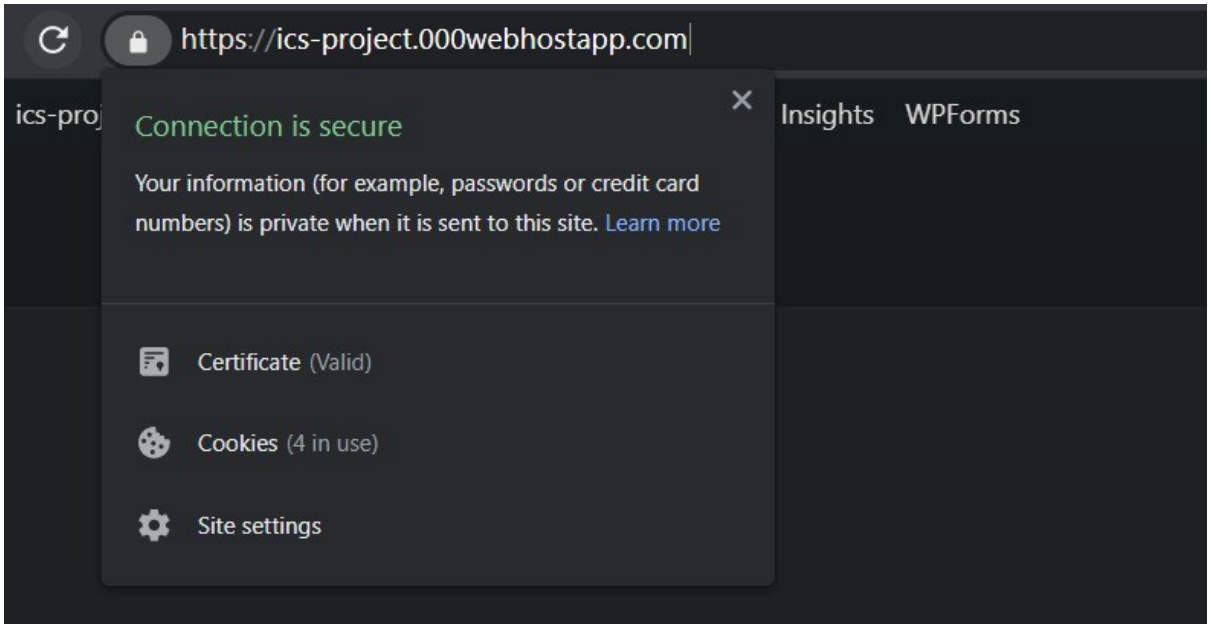
information broadcast in a way that's easily viewed by anyone spying on the network. The exchange of data between client and server is secure now.

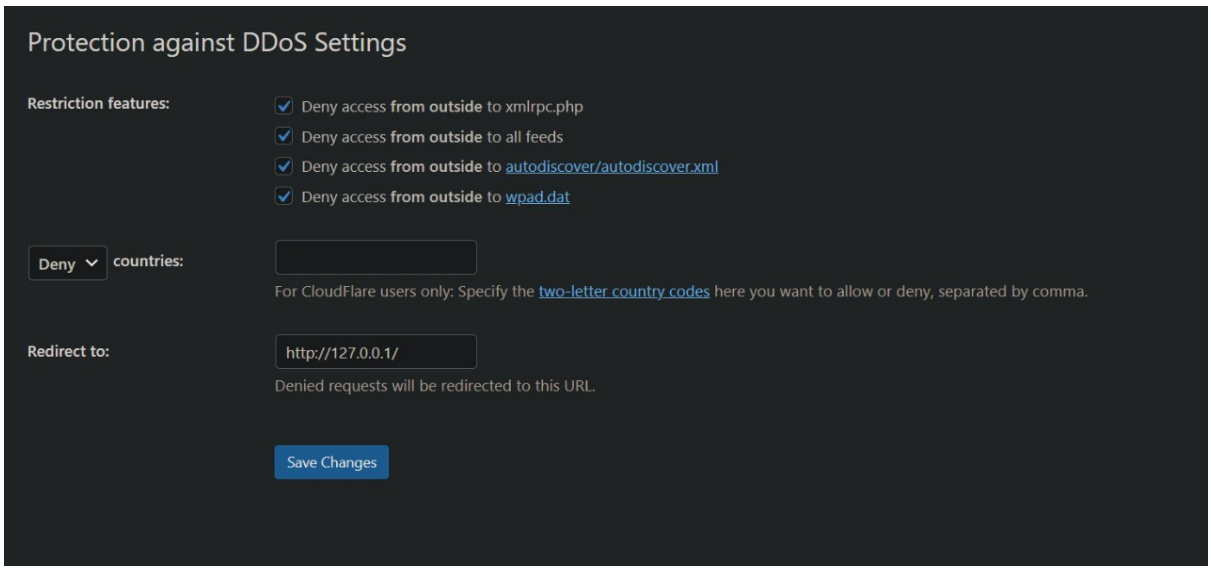
Screenshots/Output:

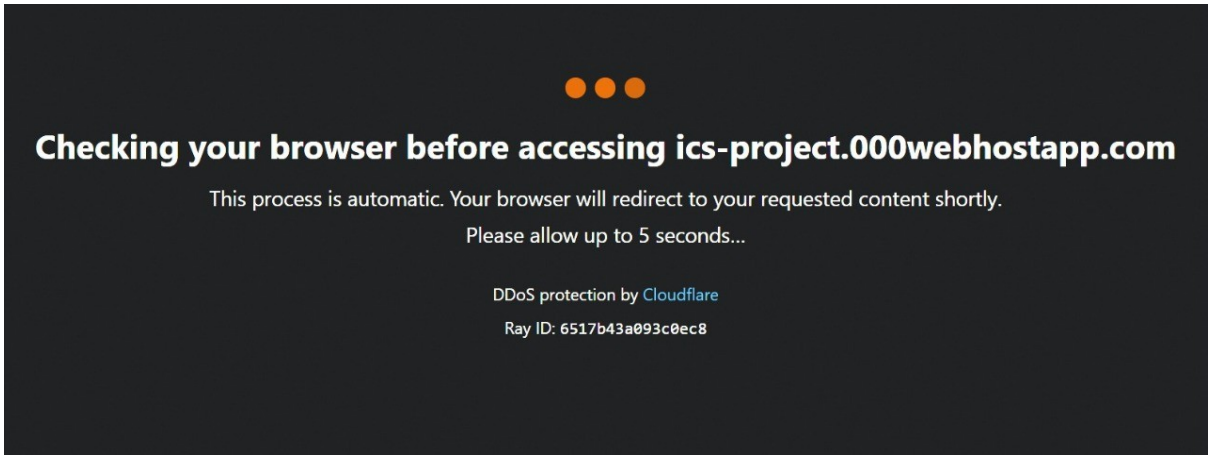


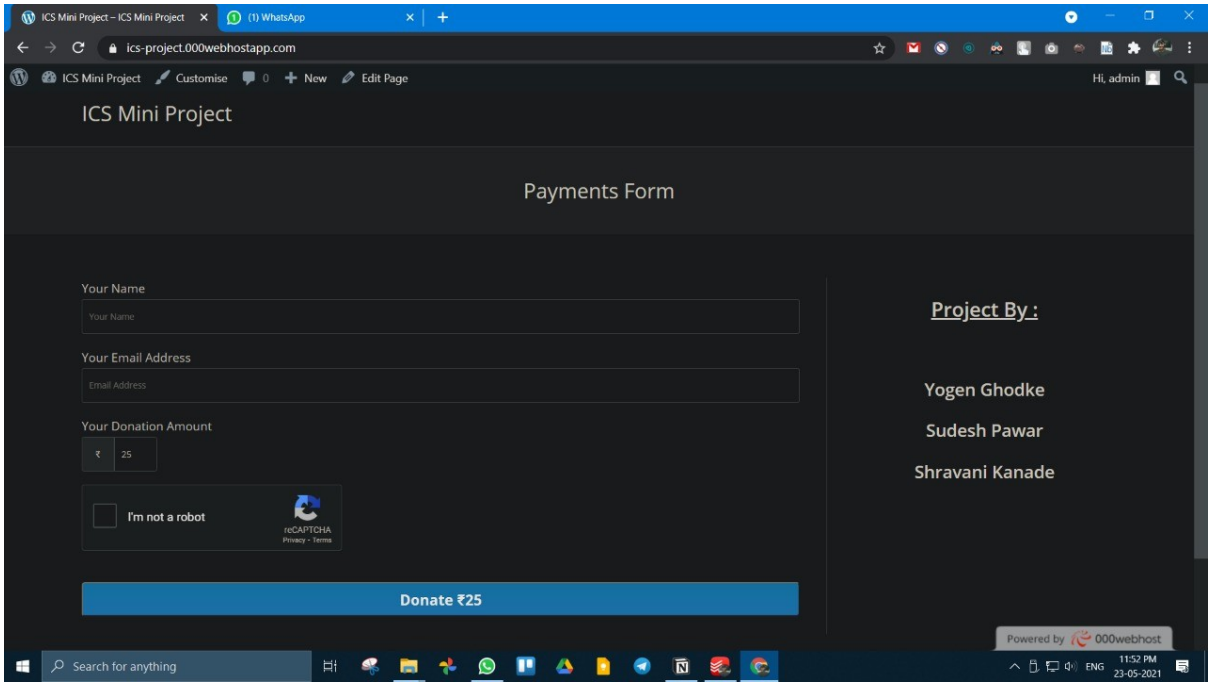

Computer Networks
My Domains
WordPress Updates
How does DDoS pr
Free SSL Certificates
Not secure
http://ics-project.000webhostapp.com/wp-admin/update-core.php
Your connection to this site is not secure
You should not enter any sensitive information on this site (for example, passwords or credit cards), because it could be stolen by attackers. Learn more
Cookies (1 in use)
Site settings

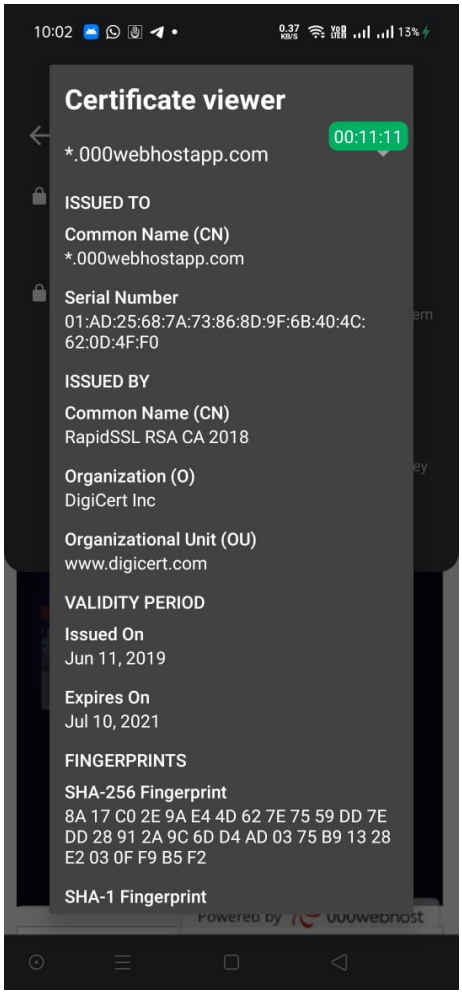

Your connection is not private
Attackers might be trying to steal your information from ics-project.000webhostapp.com (for example, passwords, messages, or credit cards). Learn more
NET::ERR_CERT_AUTHORITY_INVALID
To get Chrome's highest level of security, turn on enhanced protection
Hide advanced
Back to safety
This server could not prove that it is untrusted-root.badssl.com; its security certificate is not trusted by your computer's operating system. This may be caused by a misconfiguration or an attacker intercepting your connection.
Proceed to untrusted-root.badssl.com (unsafe)


https://ics-project.000webhostapp.com
ics-proj
Insights
WPForms
Connection is secure
Your information (for example, passwords or credit card numbers) is private when it is sent to this site. Learn more
Certificate (Valid)
Cookies (4 in use)
Site settings


Protection against DDoS Settings
Restriction features:
Deny access from outside to xmlrpc.php
Deny access from outside to all feeds
Deny access from outside to autodiscover/autodiscover.xml
Deny access from outside to wpad.dat
Deny
countries:
For CloudFlare users only: Specify the two-letter country codes here you want to allow or deny, separated by comma.
Redirect to:
http://127.0.0.1/
Denied requests will be redirected to this URL.
Save Changes


Checking your browser before accessing ics-project.000webhostapp.com
This process is automatic. Your browser will redirect to your requested content shortly.
Please allow up to 5 seconds...
DDoS protection by Cloudflare
Ray ID: 6517b43a093c0ec8


ICS Mini Project – ICS Mini Project
(1) WhatsApp
ics-project.000webhostapp.com
ICS Mini Project
Customise
New
Edit Page
Hi, admin
ICS Mini Project
Payments Form
Your Name
Your Email Address
Your Donation Amount
I'm not a robot
Donate ₹25
Project By :
Yogen Ghodke
Sudesh Pawar
Shravani Kanade
Powered by 000webhost
Search for anything
ENG
11:52 PM
23-05-2021


10:02
Certificate viewer
00:11:11
*.000webhostapp.com
ISSUED TO
Common Name (CN)
*.000webhostapp.com
Serial Number
01:AD:25:68:7A:73:86:8D:9F:6B:40:4C:62:0D:4F:F0
ISSUED BY
Common Name (CN)
RapidSSL RSA CA 2018
Organization (O)
DigiCert Inc
Organizational Unit (OU)
www.digicert.com
VALIDITY PERIOD
Issued On
Jun 11, 2019
Expires On
Jul 10, 2021
FINGERPRINTS
SHA-256 Fingerprint
8A 17 C0 2E 9A E4 4D 62 7E 75 59 DD 7E DD 28 91 2A 9C 6D D4 AD 03 75 B9 13 28 E2 03 0F F9 B5 F2
SHA-1 Fingerprint

Conclusion:

SSL certificate protects data using encryption and protects the privacy of your customers and visitors. Nonetheless, it improves your user’s overall experience with your website.